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Selected Data

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Federal Funds for

Research and Development:

Fiscal Years 1990, 1991, and 1992

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Prepared by

Science and Engineering Activities Program
Division of Science Resources Studies
National Science Foundation

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Project Officer: Mary V. Burke

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Contributors

Data collection, preparation, and tabulation were performed by Information Technologies International for the National Science Foundation. The Project Officer of this report was Mary V. Burke.

Selected Data on Federal Funds for Research and Development

The data presented in this summary are being released in advance of the publication, *Federal Funds for Research and Development, Volume XL*, which will be available in 1992. The publication will contain more comprehensive, detailed statistical tables and complete survey technical notes.

Survey coverage:

The summary data in these tables show R&D funding levels as reported by 33 Federal agencies and their subdivisions - 104 individual respondents - in March through October 1991. All agencies with R&D programs were covered.

The amounts reported for each year of this survey include the obligations or outlays incurred in that year, regardless of when the funds may have been authorized, appropriated, or received by an agency, and regardless of whether the funds are identified in an agency's budget specifically for research, development, or R&D plant.

In the tables, data for 1990 are considered to be actual since they represent virtually completed transactions. Data for 1991 and 1992 are estimated since they do not represent final actions. The timing of the Federal Funds survey coincided with the third quarter of fiscal year (FY) 1991; therefore, the amounts reported for 1991 reflect congressional appropriation actions as of that period, as well as apportionment and reprogramming decisions as of that time. Data for 1992 represent administration budget proposals that had not been acted on. The effects of later authorization, appropriation, deferral, and apportionment actions will be reflected in later surveys of this series.

Obligations represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required.

Outlays represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated.

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Table 1. Summary of Federal funds for research, development, and R&D plant: fiscal years 1990, 1991, and 1992

[Dollars in millions]

Item	1990	Estimates			
		1991	% Chg 1990-1991	1992	% Chg 1991-1992
Total outlays for research, development, and R&D plant	64,276.5	65,264.0	1.5%	69,728.5	6.8%
Research and development	62,246.8	62,783.5	.9	66,719.9	6.3
R&D plant	2,029.7	2,480.6	22.2	3,008.6	21.3
Total obligations for research, development, and R&D plant	65,950.9	68,227.4	.4	73,484.0	11.0
Research and development	63,667.3	63,217.9	-.7	70,427.4	11.4
Performers:					
Intramural 1/	16,002.5	16,469.2	2.9	17,645.4	7.1
Industrial firms	29,378.3	26,970.2	-8.2	31,929.6	18.4
FFRDCs administered by industrial firms	2,237.6	2,267.2	1.3	2,376.9	4.8
Universities and colleges	9,142.2	10,067.8	10.1	10,475.4	4.0
FFRDCs administered by universities and colleges	3,466.4	3,694.7	6.6	4,126.1	11.7
Other nonprofit institutions	2,249.6	2,549.7	13.3	2,618.5	2.7
FFRDCs administered by nonprofit institutions	632.3	675.9	6.9	713.8	5.6
State and local governments	213.9	241.1	12.7	249.6	3.5
Foreign	344.7	282.1	-18.1	292.2	3.6
Research	21,738.9	24,072.0	10.7	25,683.4	6.7
Performers:					
Intramural 1/	5,953.3	6,540.3	9.9	7,148.2	9.3
Industrial firms	3,199.9	3,650.2	14.1	3,990.0	9.3
FFRDCs administered by industrial firms	542.7	582.5	7.3	617.4	6.0
Universities and colleges	8,141.5	9,077.4	11.5	9,455.5	4.2
FFRDCs administered by universities and colleges	1,808.1	1,867.7	3.3	2,032.9	8.8
Other nonprofit institutions	1,662.2	1,899.4	14.3	1,968.4	3.6
FFRDCs administered by nonprofit institutions	148.2	166.1	12.0	178.8	7.7
State and local governments	126.4	138.3	9.4	134.0	-3.1
Foreign	156.5	150.1	-4.1	158.1	5.4
Fields of science:					
Life sciences	8,837.8	9,670.3	9.4	10,229.9	5.8
Psychology	448.6	486.6	8.5	522.3	7.4
Physical sciences	3,808.7	4,122.7	8.2	4,523.5	9.7
Environmental sciences	2,174.1	2,449.8	12.7	2,627.1	7.2
Mathematics and computer sciences	840.7	945.6	12.5	1,007.0	6.5
Engineering	4,335.2	4,923.5	13.6	5,359.3	8.9
Social sciences	630.0	772.2	22.6	705.7	-8.6
Other sciences, n.e.c.	663.7	701.4	5.7	708.5	1.0
Basic research	11,285.6	12,445.9	10.3	13,208.0	6.1
Performers:					
Intramural 1/	2,366.0	2,591.7	9.5	2,754.8	6.3
Industrial firms	887.5	1,010.3	13.8	1,078.6	6.8
FFRDCs administered by industrial firms	175.4	206.7	17.9	221.8	7.3
Universities and colleges	5,548.2	6,144.1	10.7	6,432.0	4.7
FFRDCs administered by universities and colleges	1,227.3	1,266.2	3.2	1,425.6	12.6
Other nonprofit institutions	924.1	1,057.2	14.4	1,112.6	5.2
FFRDCs administered by nonprofit institutions	59.2	64.3	8.5	72.9	13.5
State and local governments	50.4	57.0	13.1	59.1	3.8
Foreign	47.6	48.6	2.1	50.5	4.0
Fields of science:					
Life sciences	5,177.5	5,609.7	8.3	6,056.4	8.0
Psychology	215.1	236.2	9.8	252.5	6.9
Physical sciences	2,661.5	2,961.6	11.3	3,144.5	6.2
Environmental sciences	1,274.8	1,412.8	10.8	1,509.1	6.8
Mathematics and computer sciences	406.9	452.3	11.2	510.4	12.8
Engineering	1,101.5	1,279.2	16.1	1,212.6	-5.2
Social sciences	146.0	169.3	16.0	172.5	1.8
Other sciences, n.e.c.	302.3	325.0	7.5	350.2	7.7

See explanatory information, if any, and SOURCE(s) at end of table.

Table 1. Summary of Federal funds for research, development, and R&D plant: fiscal years 1990, 1991, and 1992

[Dollars in millions]

Item	1990	Estimates			
		1991	% Chg 1990-1991	1992	% Chg 1991-1992
Applied research	10,453.3	11,626.0	11.2%	12,475.5	7.3%
Performers:					
Intramural 1/	3,587.3	3,948.6	10.1	4,393.4	11.3
Industrial firms	2,312.4	2,639.9	14.2	2,911.4	10.3
FFRDCs administered by industrial firms	367.3	375.8	2.3	395.6	5.3
Universities and colleges	2,593.4	2,933.3	13.1	3,023.4	3.1
FFRDCs administered by universities and colleges	580.8	601.5	3.6	607.4	1.0
Other nonprofit institutions	738.1	842.3	14.1	855.9	1.6
FFRDCs administered by nonprofit institutions	89.0	101.8	14.4	105.9	4.0
State and local governments	76.1	81.3	6.9	74.9	-7.9
Foreign	109.0	101.5	-6.9	107.6	6.0
Fields of science:					
Life sciences	3,660.3	4,060.6	10.9	4,173.6	2.8
Psychology	233.5	250.4	7.2	269.8	7.8
Physical sciences	1,147.2	1,161.1	1.2	1,379.0	18.8
Environmental sciences	899.3	1,037.1	15.3	1,118.1	7.8
Mathematics and computer sciences	433.9	493.3	13.7	496.7	.7
Engineering	3,233.7	3,644.4	12.7	4,146.8	13.8
Social sciences	484.0	602.9	24.6	533.3	-11.5
Other sciences, n.e.c.	361.5	376.4	4.1	358.3	-4.8
Development	41,928.5	39,146.0	-6.6	44,744.0	14.3
Performers:					
Intramural 1/	10,049.2	9,929.0	-1.2	10,497.2	5.7
Industrial firms	26,178.4	23,319.9	-10.9	27,939.7	19.8
FFRDCs administered by industrial firms	1,694.9	1,684.7	-.6	1,759.4	4.4
Universities and colleges	1,000.6	990.5	-1.0	1,019.9	3.0
FFRDCs administered by universities and colleges	1,658.3	1,827.0	10.2	2,093.1	14.6
Other nonprofit institutions	587.4	650.3	10.7	650.1	*
FFRDCs administered by nonprofit institutions	484.0	509.8	5.3	535.0	4.9
State and local governments	87.5	102.8	17.6	115.6	12.4
Foreign	188.1	132.1	-29.8	134.1	1.6
R&D plant	2,283.6	3,009.4	31.8	3,056.5	1.6
Performers supported:					
Intramural	359.9	654.5	81.9	425.8	-34.9
Industrial firms	884.0	1,141.0	29.1	1,126.8	-1.2
FFRDCs administered by industrial firms	231.0	194.3	-15.9	195.5	.6
Universities and colleges	155.8	173.1	11.1	146.4	-15.5
FFRDCs administered by universities and colleges	495.8	645.9	30.3	678.6	5.1
Other nonprofit institutions	121.3	151.8	25.1	438.1	188.6
FFRDCs administered by nonprofit institutions	31.4	39.9	27.3	42.2	5.5
State and local governments	.5	.6	4.9	.4	-27.5
Foreign	3.9	8.3	110.7	2.8	-65.9

* Percentage less than .05%

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

NOTE: Because of rounding, detail may not add to totals.

FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal years 1990, 1991 and 1992

Table 2. Federal funds for research, development, and R&D plant, by agency: fiscal years 1990, 1991, and 1992

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1990	Estimates		1990	Estimates	
		1991	1992		1991	1992
Total, all agencies	65,950.9	66,227.3	73,484.0	64,276.5	65,264.0	69,728.5
Departments						
Department of Agriculture, total	1,210.6	1,368.9	1,369.0	1,196.7	1,293.8	1,314.2
Agricultural Cooperative Service	2.7	2.9	3.0	2.7	2.9	3.0
Agricultural Marketing Service 1/	2.7	3.0	3.2	2.7	3.0	3.2
Agricultural Research Service	589.9	668.2	705.6	603.4	640.7	674.7
Animal & Plant Health Inspection Svc	14.0	8.7	11.7	14.0	8.7	11.7
Cooperative State Research Service	371.1	443.6	398.2	361.9	398.3	375.7
Economic Research Service	50.5	54.4	62.5	50.7	53.8	60.6
Federal Grain Inspection Service	.6	.8	.8	.6	.8	.8
Forest Service	163.5	172.0	166.8	144.5	168.7	165.1
Human Nutrition Information Service	9.0	10.0	12.7	9.0	10.0	12.7
Nat'l Agricultural Statistics Svc	2.8	2.9	3.0	2.7	2.9	3.0
Office of International Cooperation and Development	3.6	2.5	1.6	4.3	4.0	3.8
Department of Commerce, total	453.5	546.6	562.7	441.5	528.8	544.7
Bureau of the Census	6.9	5.5	5.8	6.7	5.7	5.8
Economic Development Administration	1.2	1.2	-	1.5	1.2	.5
National Institute of Standards & Technology	131.0	191.1	206.5	120.3	173.4	188.5
National Oceanic & Atmospheric Administration	306.7	340.8	340.3	306.7	340.8	340.3
National Telecommunications & Information Admin	7.7	8.0	10.0	6.2	7.5	9.6
Office of the Secretary	-	-	-	.0	.2	-
Department of Defense, total	37,755.5	34,445.2	39,202.8	37,140.0	35,491.8	37,581.4
Department of the Army	5,737.2	5,609.7	6,476.7	5,797.1	5,470.6	6,036.4
Military functions	5,702.5	5,567.3	6,415.4	5,762.4	5,428.1	5,975.2
Civil functions (Corps of Engineers)	34.7	42.5	61.3	34.7	42.5	61.3
Department of the Navy	9,646.6	9,015.2	8,502.2	9,453.5	9,156.0	8,719.6
Department of the Air Force	15,153.6	12,113.6	15,427.3	14,888.1	13,359.5	14,598.3
Defense agencies	6,996.8	7,493.8	8,507.6	6,853.6	7,305.6	8,002.0
Test & Eval, Dpty Under Secretary Def	188.7	200.1	275.0	115.8	177.7	214.8
Director, Operational Test & Evaluation	32.6	12.8	14.1	32.0	22.3	10.3
Department of Education	178.8	214.2	224.3	150.7	185.0	217.9
Department of Energy	6,546.6	7,151.2	7,834.2	6,365.3	6,753.6	7,479.6
Department of Health and Human Services, total	8,513.4	9,490.3	9,902.9	8,363.8	8,892.3	9,432.8
Administration for Children and Families 2/	95.4	148.1	153.2	76.7	116.9	152.5
Agency for Health Care Policy & Research 3/	49.7	95.8	34.3	5.3	79.8	52.6
Alcohol, Drug Abuse & Mental Health Administration	842.7	957.2	1,022.2	842.7	957.2	1,022.2
Centers for Disease Control	95.6	109.6	113.3	95.6	109.6	113.3
Food & Drug Administration	122.0	112.5	126.3	95.0	103.1	123.6
Health Care Financing Administration	49.1	69.8	36.0	14.4	44.9	41.1
Health Resources and Services Admin	11.9	10.7	10.9	11.9	10.7	10.9
National Institutes of Health	7,221.3	7,946.6	8,374.1	7,181.1	7,419.2	7,872.3
Office of Assistant Secretary for Health	6.9	10.1	3.9	22.3	21.1	15.6
Office of the Secretary	5.0	8.9	5.0	5.0	8.9	5.0
Social Security Administration	13.9	20.8	23.7	13.9	20.8	23.7
Department of Housing and Urban Development	19.3	31.5	36.4	21.7	19.3	29.7
Department of the Interior, total	522.6	603.6	567.8	503.0	586.0	573.5
Bureau of Land Management	2.8	5.5	11.6	2.8	5.5	11.6
Bureau of Mines	102.3	112.3	82.8	96.7	110.8	93.1
Bureau of Reclamation	5.8	8.6	11.7	5.8	8.6	11.7
Geological Survey	309.7	355.3	340.9	301.3	345.8	341.1
Minerals Management Service	2.0	2.8	6.2	2.0	2.7	4.9
National Park Service	20.1	25.2	29.0	20.1	25.2	29.0
Office of the Secretary	.2	.7	1.1	.2	.7	1.1
Office of Surface Mining Reclamation and Enforcement	.7	1.0	2.9	.8	1.0	2.9
United States Fish and Wildlife Service	78.9	92.2	81.6	73.3	85.7	78.1

See explanatory information, if any, and SOURCE(s) at end of table.

Table 2. Federal funds for research, development, and R&D plant, by agency: fiscal years 1990, 1991, and 1992

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1990	Estimates		1990	Estimates	
		1991	1992		1991	1992
Department of Justice, total	40.5	46.1	43.0	38.2	41.2	45.2
Drug Enforcement Administration	2.4	2.1	3.3	2.4	2.1	3.3
Federal Bureau of Investigation	8.2	10.7	10.8	8.2	10.7	10.8
Federal Prison System	4.5	4.6	4.4	3.2	3.8	4.8
Immigration and Naturalization Service	.4	.4	.4	.4	.4	.4
Office of Justice Programs	25.0	28.3	24.1	24.0	24.3	25.9
Department of Labor, total	73.0	75.4	67.3	45.2	56.0	52.2
Bureau of Labor Statistics	7.3	7.4	7.7	7.3	7.4	7.7
Employment Standards Administration	.1	.2	.1	.1	.2	.1
Employment and Training Administration	53.4	53.0	39.1	25.6	33.6	24.1
Occupational Safety and Health Administration	2.5	3.3	3.3	2.5	3.3	3.3
Office of the Secretary	7.1	8.5	13.9	7.1	8.5	13.9
Pension Benefit Guaranty Corporation	.5	.5	.5	.5	.5	.5
Pension & Welfare Benefits Admin	2.1	2.5	2.6	2.1	2.5	2.6
Department of State	4.7	8.9	9.0	4.7	8.9	9.0
Department of Transportation, total	387.4	435.2	461.6	287.3	392.3	437.7
Coast Guard	20.6	25.0	28.8	21.4	24.4	25.7
Federal Aviation Administration	237.5	248.6	259.9	185.5	246.8	263.4
Federal Highway Administration	90.6	105.6	102.6	44.0	68.0	85.6
Federal Railroad Administration	10.2	25.5	26.3	7.0	24.2	23.9
Maritime Administration	.9	1.0	2.0	.9	1.0	2.0
National Highway Traffic Safety Administration	16.9	21.4	23.7	16.9	17.9	24.9
Office of the Secretary	6.8	4.3	5.9	6.9	5.1	5.7
Research and Special Programs Administration	2.4	2.3	3.0	2.4	2.3	3.0
Urban Mass Transportation Administration	1.6	1.6	9.4	2.3	2.6	3.5
Department of the Treasury, total	25.7	29.4	32.0	25.2	28.8	32.1
Bureau of Engraving and Printing	2.1	4.8	4.7	2.1	4.8	4.7
Internal Revenue Service	16.8	17.9	17.9	16.3	17.3	17.3
Office of Protective Research	.5	.5	.5	.5	.5	.5
United States Customs Service	6.3	5.3	8.6	6.3	5.3	8.6
United States Mint	.1	.9	.3	.1	.9	.9
Department of Veterans Affairs	241.0	254.3	225.9	219.0	219.0	222.2
Other agencies						
Advisory Commission on Intergovernmental Relations	1.5	1.5	1.4	1.2	1.3	1.3
Agency for International Development	347.9	335.3	369.9	347.9	382.4	179.5
Appalachian Regional Commission	.4	.3	-	.4	.3	-
Consumer Product Safety Commission	1.1	1.5	1.3	1.2	1.5	1.3
Environmental Protection Agency	419.7	425.4	482.9	388.5	417.8	450.4
Federal Communications Commission	1.3	1.6	1.4	1.3	1.6	1.4
Federal Trade Commission	.5	.5	.5	.5	.5	.5
General Services Administration	18.0	30.4	-	.7	9.2	23.3
International Trade Commission	9.1	10.9	11.8	9.1	10.9	11.8
Library of Congress	8.4	9.2	9.6	8.4	9.2	9.6
National Aeronautics and Space Administration	7,060.3	8,383.9	9,372.1	6,762.2	7,695.2	8,616.5
National Archives & Records Admin	.4	.7	.6	.4	.7	.6
National Science Foundation	1,728.8	1,920.2	2,241.9	1,563.0	1,830.3	2,020.4
Nuclear Regulatory Commission	217.5	229.6	250.9	223.0	226.0	243.2
Office of Thrift Supervision 4/	4.1	3.3	3.5	4.1	3.3	3.5
Smithsonian Institution	88.8	101.5	115.8	95.4	105.0	111.4
Tennessee Valley Authority	69.8	70.1	78.8	66.7	71.4	78.8
United States Arms Control and Disarmament Agency	.2	.3	2.0	.2	.3	2.0
United States Information Agency	.5	.4	.7	-	.4	.7

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table 3. Federal funds for total research and development, by agency: fiscal years 1990, 1991, and 1992

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1990	Estimates		1990	Estimates	
		1991	1992		1991	1992
Total, all agencies	63,667.3	63,217.9	70,427.4	62,246.8	62,783.4	66,719.9
Departments						
Department of Agriculture, total	1,108.4	1,218.6	1,255.7	1,072.5	1,147.4	1,192.9
Agricultural Cooperative Service	2.7	2.9	3.0	2.7	2.9	3.0
Agricultural Marketing Service 1/	2.7	3.0	3.2	2.7	3.0	3.2
Agricultural Research Service	545.5	589.1	623.5	548.1	572.7	604.8
Animal & Plant Health Inspection Svc	8.0	8.7	9.2	8.0	8.7	9.2
Cooperative State Research Service	324.2	376.7	373.2	303.9	324.3	330.4
Economic Research Service	50.5	54.4	62.5	50.7	53.8	60.6
Federal Grain Inspection Service	.6	.8	.8	.6	.8	.8
Forest Service	158.6	167.6	163.2	139.6	164.3	161.5
Human Nutrition Information Service	9.0	10.0	12.7	9.0	10.0	12.7
Nat'l Agricultural Statistics Svc	2.8	2.9	3.0	2.7	2.9	3.0
Office of International Cooperation and Development	3.6	2.5	1.6	4.3	4.0	3.8
Department of Commerce, total	438.2	525.9	539.0	426.8	507.9	521.5
Bureau of the Census	6.9	5.5	5.8	6.7	5.7	5.8
Economic Development Administration	1.2	1.2	-	1.5	1.2	.5
National Institute of Standards & Technology	122.3	175.7	186.0	112.3	157.9	168.4
National Oceanic & Atmospheric Administration	300.1	335.5	337.2	300.1	335.5	337.2
National Telecommunications & Information Admin	7.7	8.0	10.0	6.2	7.5	9.6
Office of the Secretary	-	-	-	.0	.2	-
Department of Defense, total	37,268.1	33,966.2	38,769.9	36,703.2	35,037.4	37,120.8
Department of the Army	5,684.1	5,557.2	6,457.5	5,750.2	5,432.4	6,019.5
Military functions	5,649.4	5,514.7	6,396.3	5,715.6	5,389.9	5,958.2
Civil functions (Corps of Engineers)	34.7	42.5	61.3	34.7	42.5	61.3
Department of the Navy	9,586.2	8,849.6	8,427.0	9,352.3	9,058.8	8,617.3
Department of the Air Force	14,831.4	11,900.1	15,115.5	14,687.9	13,102.7	14,304.6
Defense agencies	6,945.2	7,446.5	8,480.8	6,765.0	7,243.5	7,954.4
Test & Eval, Dpty Under Secretary Def	188.7	200.1	275.0	115.8	177.7	214.8
Director, Operational Test & Evaluation	32.6	12.8	14.1	32.0	22.3	10.3
Department of Education	169.9	207.3	222.2	147.9	179.6	214.2
Department of Energy	5,630.6	6,158.7	6,498.7	5,508.4	5,862.6	6,304.6
Department of Health and Human Services, total	8,405.6	9,246.3	9,780.5	8,308.7	8,779.9	9,272.5
Administration for Children and Families 2/	95.4	148.1	153.2	76.7	116.9	152.5
Agency for Health Care Policy & Research 3/	49.7	95.8	34.3	5.3	79.8	52.6
Alcohol, Drug Abuse & Mental Health Administration	842.7	957.2	1,022.2	842.7	957.2	1,022.2
Centers for Disease Control	95.6	109.6	113.3	95.6	109.6	113.3
Food & Drug Administration	99.0	110.0	125.3	94.0	99.0	114.1
Health Care Financing Administration	49.1	69.8	36.0	14.4	44.9	41.1
Health Resources and Services Admin	11.9	10.7	10.9	11.9	10.7	10.9
National Institutes of Health	7,136.5	7,705.1	8,252.7	7,127.0	7,310.9	7,721.5
Office of Assistant Secretary for Health	6.9	10.1	3.9	22.3	21.1	15.6
Office of the Secretary	5.0	8.9	5.0	5.0	8.9	5.0
Social Security Administration	13.9	20.8	23.7	13.9	20.8	23.7
Department of Housing and Urban Development	19.3	31.5	36.4	21.7	19.3	29.7
Department of the Interior, total	508.5	588.8	561.8	492.5	575.4	568.7
Bureau of Land Management	2.8	5.5	11.6	2.8	5.5	11.6
Bureau of Mines	99.3	111.7	82.2	93.6	110.2	92.5
Bureau of Reclamation	5.8	8.6	11.7	5.8	8.6	11.7
Geological Survey	308.4	353.5	339.1	300.0	344.1	339.3
Minerals Management Service	1.9	2.6	5.7	1.8	2.4	4.5
National Park Service	20.1	25.2	29.0	20.1	25.2	29.0
Office of the Secretary	.2	.7	1.1	.2	.7	1.1
Office of Surface Mining Reclamation and Enforcement	.7	1.0	2.9	.8	1.0	2.9
United States Fish and Wildlife Service	69.4	80.1	78.5	67.3	77.7	76.1

See explanatory information, if any, and SOURCE(s) at end of table.

Table 3. Federal funds for total research and development, by agency: fiscal years 1990, 1991, and 1992

[Dollars in millions]

Agency and subdivision	Obligations			Outlays		
	1990	Estimates		1990	Estimates	
		1991	1992		1991	1992
Department of Justice, total	40.5	46.1	43.0	38.2	41.2	45.2
Drug Enforcement Administration	2.4	2.1	3.3	2.4	2.1	3.3
Federal Bureau of Investigation	8.2	10.7	10.8	8.2	10.7	10.8
Federal Prison System	4.5	4.6	4.4	3.2	3.8	4.8
Immigration and Naturalization Service	.4	.4	.4	.4	.4	.4
Office of Justice Programs	25.0	28.3	24.1	24.0	24.3	25.9
Department of Labor, total	73.0	75.4	67.3	45.2	56.0	52.2
Bureau of Labor Statistics	7.3	7.4	7.7	7.3	7.4	7.7
Employment Standards Administration	.1	.2	.1	.1	.2	.1
Employment and Training Administration	53.4	53.0	39.1	25.6	33.6	24.1
Occupational Safety and Health Administration	2.5	3.3	3.3	2.5	3.3	3.3
Office of the Secretary	7.1	8.5	13.9	7.1	8.5	13.9
Pension Benefit Guaranty Corporation	.5	.5	.5	.5	.5	.5
Pension & Welfare Benefits Admin	2.1	2.5	2.6	2.1	2.5	2.6
Department of State	4.7	8.9	9.0	4.7	8.9	9.0
Department of Transportation, total	365.6	414.3	434.9	270.6	373.0	410.8
Coast Guard	20.2	24.6	28.4	21.0	24.0	25.3
Federal Aviation Administration	216.1	230.3	234.1	169.2	229.5	238.0
Federal Highway Administration	90.6	105.6	102.6	44.0	68.0	85.6
Federal Railroad Administration	10.2	23.2	25.8	7.0	22.7	22.8
Maritime Administration	.9	1.0	2.0	.9	1.0	2.0
National Highway Traffic Safety Administration	16.9	21.4	23.7	16.9	17.9	24.9
Office of the Secretary	6.8	4.3	5.9	6.9	5.1	5.7
Research and Special Programs Administration	2.4	2.3	3.0	2.4	2.3	3.0
Urban Mass Transportation Administration	1.6	1.6	9.4	2.3	2.6	3.5
Department of the Treasury, total	25.6	29.3	31.9	25.1	28.7	32.0
Bureau of Engraving and Printing	2.1	4.8	4.7	2.1	4.8	4.7
Internal Revenue Service	16.8	17.9	17.9	16.3	17.3	17.3
Office of Protective Research	.5	.5	.5	.5	.5	.5
United States Customs Service	6.2	5.2	8.5	6.2	5.2	8.5
United States Mint	.1	.9	.3	.1	.9	.9
Department of Veterans Affairs	237.7	243.2	220.8	206.6	212.5	216.7
Other agencies						
Advisory Commission on Intergovernmental Relations	1.5	1.5	1.4	1.2	1.3	1.3
Agency for International Development	334.6	322.4	355.7	334.0	367.1	154.9
Appalachian Regional Commission	.4	.3	-	.4	.3	-
Consumer Product Safety Commission	1.1	1.5	1.3	1.2	1.5	1.3
Environmental Protection Agency	419.7	425.4	482.9	388.5	417.8	450.4
Federal Communications Commission	1.3	1.6	1.4	1.3	1.6	1.4
Federal Trade Commission	.5	.5	.5	.5	.5	.5
General Services Administration	.7	-	-	.7	-	-
International Trade Commission	9.1	10.9	11.8	9.1	10.9	11.8
Library of Congress	8.4	9.2	9.6	8.4	9.2	9.6
National Aeronautics and Space Administration	6,533.2	7,434.6	8,543.0	6,324.3	6,973.6	7,766.9
National Archives & Records Admin	.4	.7	.6	.4	.7	.6
National Science Foundation	1,689.5	1,847.0	2,101.6	1,524.9	1,765.9	1,896.9
Nuclear Regulatory Commission	217.5	229.6	250.9	223.0	226.0	243.2
Office of Thrift Supervision 4/	4.1	3.3	3.5	4.1	3.3	3.5
Smithsonian Institution	84.0	98.2	111.7	90.8	102.1	107.3
Tennessee Valley Authority	64.9	70.0	77.7	61.8	71.3	77.7
United States Arms Control and Disarmament Agency	.2	.3	2.0	.2	.3	2.0
United States Information Agency	.5	.4	.7	-	.4	.7

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table 4. Federal obligations for total research and development, by agency and character of work: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Total, all agencies	63,667,314	11,285,593	10,453,273	41,928,448
Departments				
Department of Agriculture, total	1,108,380	519,190	550,066	39,124
Agricultural Cooperative Service	2,721	-	2,721	-
Agricultural Marketing Service 1/	2,679	540	1,700	439
Agricultural Research Service	545,539	294,046	218,215	33,278
Animal & Plant Health Inspection Svc	7,970	-	7,970	-
Cooperative State Research Service	324,243	153,726	170,517	-
Economic Research Service	50,534	7,075	43,459	-
Federal Grain Inspection Service	647	-	222	425
Forest Service	158,600	60,300	93,500	4,800
Human Nutrition Information Service	9,031	-	9,031	-
Nat'l Agricultural Statistics Svc	2,786	917	1,869	-
Office of International Cooperation and Development	3,630	2,586	862	182
Department of Commerce, total	438,168	31,382	345,612	61,174
Bureau of the Census	6,851	2,812	2,053	1,986
Economic Development Administration	1,188	-	1,188	-
National Institute of Standards & Technology	122,278	28,570	83,185	10,523
National Oceanic & Atmospheric Administration	300,145	-	252,408	47,737
National Telecommunications & Information Admin	7,706	-	6,778	928
Department of Defense, total	37,268,148	947,621	2,581,608	33,738,919
Department of the Army	5,684,085	185,075	595,162	4,903,848
Department of the Navy	9,586,189	365,032	442,562	8,778,595
Department of the Air Force	14,831,395	197,045	579,299	14,055,051
Defense agencies	6,945,209	200,469	964,585	5,780,155
Test & Eval, Dpt, Under Secretary Def	188,710	-	-	188,710
Director, Operational Test & Eval	32,560	-	-	32,560
Department of Education	169,946	4,922	125,330	39,694
Department of Energy	5,630,554	1,504,796	1,065,687	3,060,071
Department of Health and Human Services, total	8,405,641	4,649,031	2,818,062	938,548
Administration for Children and Families 2/	95,415	-	7,728	87,687
Agency for Health Care Policy & Research 3/	49,700	-	44,200	5,500
Alcohol, Drug Abuse & Mental Health Administration	842,650	306,181	415,017	41,452
Centers for Disease Control	95,600	-	95,600	-
Food & Drug Administration	99,000	-	99,000	-
Health Care Financing Administration	49,111	-	49,111	-
Health Resources and Services Admin	11,856	1,150	10,706	-
National Institutes of Health	7,136,500	4,261,700	2,074,100	800,700
Office of Assistant Secretary for Health	6,944	-	5,844	1,100
Office of the Secretary	4,966	-	4,966	-
Social Security Administration	13,899	-	11,790	2,109
Department of Housing and Urban Development	19,258	-	6,595	12,663
Department of the Interior, total	508,509	205,431	269,783	33,295
Bureau of Land Management	2,800	-	2,100	700
Bureau of Mines	99,290	40,647	49,265	9,378
Bureau of Reclamation	5,804	100	5,226	478
Geological Survey	308,387	159,084	134,164	15,139
Minerals Management Service	1,855	-	1,855	-
National Park Service	20,087	-	20,087	-
Office of the Secretary	200	-	-	200
Office of Surface Mining Reclamation and Enforcement	686	-	686	-
United States Fish and Wildlife Service	69,400	5,600	56,400	7,400
Department of Justice, total	40,459	8,802	11,069	20,588
Drug Enforcement Administration	2,377	-	354	2,023
Federal Bureau of Investigation	8,205	-	-	8,205
Federal Prison System	4,500	-	1,800	2,700
Immigration and Naturalization Service	400	-	400	-
Office of Justice Programs	24,977	8,802	8,515	7,660
Department of Labor, total	73,003	300	21,333	51,370
Bureau of Labor Statistics	7,300	-	7,300	-
Employment Standards Administration	53	-	53	-
Employment and Training Administration	53,401	300	5,706	47,395
Occupational Safety and Health Administration	2,526	-	2,526	-
Office of the Secretary	7,148	-	3,338	3,810
Pension Benefit Guaranty Corporation	465	-	300	165
Pension & Welfare Benefits Admin	2,110	-	2,110	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table 4. Federal obligations for total research and development, by agency and character of work: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Department of State	4,692	3,527	1,165	-
Department of Transportation, total	365,635	-	118,945	246,690
Coast Guard	20,230	-	5,058	15,172
Federal Aviation Administration	216,070	-	26,125	189,945
Federal Highway Administration	90,554	-	57,417	33,137
Federal Railroad Administration	10,198	-	8,464	1,734
Maritime Administration	900	-	900	-
National Highway Traffic Safety Administration	16,930	-	16,930	-
Office of the Secretary	6,755	-	1,670	5,085
Research and Special Programs Administration	2,381	-	2,381	-
Urban Mass Transportation Administration	1,617	-	-	1,617
Department of the Treasury, total	25,617	3,360	15,346	6,911
Bureau of Engraving and Printing	2,083	-	1,364	719
Internal Revenue Service	16,800	3,360	13,104	336
Office of Protective Research	478	-	478	-
United States Customs Service	6,200	-	400	5,800
United States Mint	56	-	-	56
Department of Veterans Affairs	237,700	16,200	199,400	22,100
Other agencies				
Advisory Commission on Intergovernmental Relations	1,513	-	1,513	-
Agency for International Development	334,554	5,031	300,188	29,335
Appalachian Regional Commission	401	-	401	-
Consumer Product Safety Commission	1,137	-	440	697
Environmental Protection Agency	419,726	73,632	241,610	104,484
Federal Communications Commission	1,329	-	1,329	-
Federal Trade Commission	459	-	459	-
General Services Administration	665	-	665	-
International Trade Commission	9,065	-	9,065	-
Library of Congress	8,412	295	1,166	6,951
National Aeronautics and Space Administration	6,533,246	1,636,926	1,423,765	3,472,555
National Archives & Records Admin	365	155	100	110
National Science Foundation	1,689,535	1,586,276	103,259	-
Nuclear Regulatory Commission	217,524	-	217,524	-
Office of Thrift Supervision 4/	4,126	-	4,126	-
Smithsonian Institution	83,987	83,987	-	-
Tennessee Valley Authority	64,892	4,729	16,994	43,169
United States Arms Control and Disarmament Agency	218	-	218	-
United States Information Agency	450	-	450	-

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table 5. Federal obligations for total research and development, by agency and character of work: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Total, all agencies	63,217,934	12,445,936	11,626,031	39,145,967
Departments				
Department of Agriculture, total	1,218,624	562,594	614,214	41,816
Agricultural Cooperative Service	2,870	-	2,870	-
Agricultural Marketing Service 1/	3,014	540	1,972	502
Agricultural Research Service	589,085	317,517	235,634	35,934
Animal & Plant Health Inspection Svc	8,713	-	8,713	-
Cooperative State Research Service	376,722	170,315	206,407	-
Economic Research Service	54,400	7,670	46,730	-
Federal Grain Inspection Service	788	-	334	454
Forest Service	167,600	63,800	99,000	4,800
Human Nutrition Information Service	9,998	-	9,998	-
Nat'l Agricultural Statistics Svc	2,920	961	1,959	-
Office of International Cooperation and Development	2,514	1,791	597	126
Department of Commerce, total	525,869	31,294	413,353	81,222
Bureau of the Census	5,515	1,185	2,425	1,905
Economic Development Administration	1,190	-	1,190	-
National Institute of Standards & Technology	175,678	30,109	110,251	35,318
National Oceanic & Atmospheric Administration	335,510	-	292,439	43,071
National Telecommunications & Information Admin	7,976	-	7,048	928
Department of Defense, total	33,966,243	1,140,358	2,665,488	30,160,397
Department of the Army	5,557,158	178,247	607,829	4,771,082
Department of the Navy	8,849,633	397,278	481,655	7,970,700
Department of the Air Force	11,900,052	185,266	527,249	11,187,537
Defense agencies	7,446,494	379,567	1,048,755	6,018,172
Test & Eval, Dpty Under Secretary Def	200,147	-	-	200,147
Director, Operational Test & Eval	12,759	-	-	12,759
Department of Education	207,256	7,698	148,676	50,882
Department of Energy	6,158,687	1,725,769	1,237,218	3,195,700
Department of Health and Human Services, total	9,246,262	5,041,743	3,158,609	1,045,910
Administration for Children and Families 2/	148,149	-	8,944	139,205
Agency for Health Care Policy & Research 3/	95,800	-	87,200	8,600
Alcohol, Drug Abuse & Mental Health Administration	957,209	431,120	478,097	47,992
Centers for Disease Control	109,600	-	109,600	-
Food & Drug Administration	110,000	-	110,000	-
Health Care Financing Administration	69,778	-	69,778	-
Health Resources and Services Admin	10,746	1,523	9,223	-
National Institutes of Health	7,705,100	4,609,100	2,248,100	847,900
Office of Assistant Secretary for Health	10,131	-	9,631	500
Office of the Secretary	8,928	-	8,928	-
Social Security Administration	20,821	-	19,108	1,713
Department of Housing and Urban Development	31,463	-	11,400	20,063
Department of the Interior, total	588,847	233,277	316,021	39,549
Bureau of Land Management	5,489	1,000	2,719	1,770
Bureau of Mines	111,689	44,302	59,110	8,277
Bureau of Reclamation	8,600	100	7,700	800
Geological Survey	353,487	182,175	153,640	17,672
Minerals Management Service	2,582	-	2,582	-
National Park Service	25,200	-	25,200	-
Office of the Secretary	700	-	-	700
Office of Surface Mining Reclamation and Enforcement	1,000	-	970	30
United States Fish and Wildlife Service	80,100	5,700	64,100	10,300
Department of Justice, total	46,082	6,211	15,103	24,768
Drug Enforcement Administration	2,078	-	345	1,733
Federal Bureau of Investigation	10,679	-	-	10,679
Federal Prison System	4,600	-	1,800	2,800
Immigration and Naturalization Service	400	-	400	-
Office of Justice Programs	28,325	6,211	12,558	9,556
Department of Labor, total	75,404	300	24,487	50,617
Bureau of Labor Statistics	7,400	-	7,400	-
Employment Standards Administration	181	-	181	-
Employment and Training Administration	53,012	300	6,364	46,348
Occupational Safety and Health Administration	3,265	-	3,265	-
Office of the Secretary	8,481	-	4,382	4,099
Pension Benefit Guaranty Corporation	525	-	355	170
Pension & Welfare Benefits Admin	2,540	-	2,540	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table 5. Federal obligations for total research and development, by agency and character of work: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Department of State	8,930	7,734	1,196	-
Department of Transportation, total	414,286	-	145,618	268,668
Coast Guard	24,600	-	6,150	18,450
Federal Aviation Administration	230,323	-	28,013	202,310
Federal Highway Administration	105,585	-	66,922	38,663
Federal Railroad Administration	23,233	-	19,283	3,950
Maritime Administration	1,000	-	1,000	-
National Highway Traffic Safety Administration	21,368	-	21,368	-
Office of the Secretary	4,317	-	622	3,695
Research and Special Programs Administration	2,260	-	2,260	-
Urban Mass Transportation Administration	1,600	-	-	1,600
Department of the Treasury, total	29,281	3,576	18,043	7,662
Bureau of Engraving and Printing	4,775	-	3,095	1,680
Internal Revenue Service	17,878	3,576	13,945	357
Office of Protective Research	493	-	493	-
United States Customs Service	5,192	-	510	4,682
United States Mint	943	-	-	943
Department of Veterans Affairs	243,200	15,800	205,100	22,300
Other agencies				
Advisory Commission on Intergovernmental Relations	1,528	-	1,528	-
Agency for International Development	322,441	10,581	279,416	32,444
Appalachian Regional Commission	302	-	302	-
Consumer Product Safety Commission	1,532	-	1,102	430
Environmental Protection Agency	425,428	96,709	245,976	82,743
Federal Communications Commission	1,561	-	1,561	-
Federal Trade Commission	493	-	493	-
International Trade Commission	10,906	-	10,906	-
Library of Congress	9,190	314	1,265	7,611
National Aeronautics and Space Administration	7,434,637	1,729,497	1,734,373	3,970,767
National Archives & Records Admin	691	356	255	80
National Science Foundation	1,847,037	1,732,130	114,907	-
Nuclear Regulatory Commission	229,578	-	229,578	-
Office of Thrift Supervision 4/	3,291	-	3,291	-
Smithsonian Institution	98,180	98,180	-	-
Tennessee Valley Authority	70,030	1,815	25,877	42,338
United States Arms Control and Disarmament Agency	275	-	275	-
United States Information Agency	400	-	400	-

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table 6. Federal obligations for total research and development, by agency and character of work: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Total, all agencies	70,427,418	13,207,952	12,475,458	44,744,008
Departments				
Department of Agriculture, total	1,255,697	598,019	613,818	43,860
Agricultural Cooperative Service	3,018	-	3,018	-
Agricultural Marketing Service 1/	3,207	556	2,115	536
Agricultural Research Service	623,451	336,041	249,380	38,030
Animal & Plant Health Inspection Svc	9,184	-	9,184	-
Cooperative State Research Service	373,151	188,525	184,626	-
Economic Research Service	62,479	8,747	53,732	-
Federal Grain Inspection Service	788	-	334	454
Forest Service	163,200	62,100	96,400	4,700
Human Nutrition Information Service	12,654	-	12,654	-
Nat'l Agricultural Statistics Svc	3,014	992	2,022	-
Office of International Cooperation and Development	1,551	1,058	353	140
Department of Commerce, total	539,041	34,101	418,073	86,867
Bureau of the Census	5,806	1,476	2,425	1,905
National Institute of Standards & Technology	186,011	32,625	117,652	35,734
National Oceanic & Atmospheric Administration	337,195	-	290,948	46,247
National Telecommunications & Information Admin	10,029	-	7,048	2,981
Department of Defense, total	38,769,897	1,027,988	2,883,483	34,858,426
Department of the Army	6,457,510	192,500	669,837	5,595,173
Department of the Navy	8,427,041	424,622	514,808	7,487,611
Department of the Air Force	15,115,455	211,984	639,010	14,264,461
Defense agencies	8,480,757	198,882	1,059,828	7,222,047
Test & Eval, Dpty Under Secretary Def	275,032	-	-	275,032
Director, Operational Test & Eval	14,102	-	-	14,102
Department of Education	222,158	6,794	158,189	57,175
Department of Energy	6,498,663	1,730,600	1,211,765	3,556,298
Department of Health and Human Services, total	9,780,472	5,419,080	3,252,143	1,109,249
Administration for Children and Families 2/	153,207	-	8,774	144,433
Agency for Health Care Policy & Research 3/	34,300	-	31,200	3,100
Alcohol, Drug Abuse & Mental Health Administration	1,022,166	456,381	512,739	53,046
Centers for Disease Control	113,300	-	113,300	-
Food & Drug Administration	125,300	-	125,300	-
Health Care Financing Administration	36,000	-	36,000	-
Health Resources and Services Admin	10,898	1,599	9,299	-
National Institutes of Health	8,252,700	4,961,100	2,384,500	907,100
Office of Assistant Secretary for Health	3,870	-	2,300	1,570
Office of the Secretary	5,037	-	5,037	-
Social Security Administration	23,694	-	23,694	-
Department of Housing and Urban Development	36,382	-	13,202	23,180
Department of the Interior, total	561,819	210,340	309,859	41,620
Bureau of Land Management	11,588	3,000	4,851	3,737
Bureau of Mines	82,228	33,726	43,026	5,476
Bureau of Reclamation	11,700	-	10,600	1,100
Geological Survey	339,067	167,914	153,146	18,007
Minerals Management Service	5,714	-	5,714	-
National Park Service	29,000	-	29,000	-
Office of the Secretary	1,100	-	-	1,100
Office of Surface Mining Reclamation and Enforcement	2,922	-	2,922	-
United States Fish and Wildlife Service	78,500	5,700	60,600	12,200
Department of Justice, total	43,011	5,758	12,287	24,966
Drug Enforcement Administration	3,273	-	795	2,478
Federal Bureau of Investigation	10,832	-	-	10,832
Federal Prison System	4,400	-	1,700	2,700
Immigration and Naturalization Service	400	-	400	-
Office of Justice Programs	24,106	5,758	9,392	8,956
Department of Labor, total	67,259	225	29,823	37,211
Bureau of Labor Statistics	7,700	-	7,700	-
Employment Standards Administration	139	-	139	-
Employment and Training Administration	39,131	225	5,384	33,522
Occupational Safety and Health Administration	3,265	-	3,265	-
Office of the Secretary	13,904	-	10,285	3,619
Pension Benefit Guaranty Corporation	520	-	450	70
Pension & Welfare Benefits Admin	2,600	-	2,600	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table 6. Federal obligations for total research and development, by agency and character of work: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Research		Development
		Basic	Applied	
Department of State	8,987	7,784	1,203	-
Department of Transportation, total	434,943	-	135,962	298,981
Coast Guard	28,400	-	7,100	21,300
Federal Aviation Administration	234,080	-	25,793	208,287
Federal Highway Administration	102,629	-	52,020	50,609
Federal Railroad Administration	25,813	-	21,425	4,388
Maritime Administration	2,000	-	2,000	-
National Highway Traffic Safety Administration	23,743	-	23,743	-
Office of the Secretary	5,875	-	837	5,038
Research and Special Programs Administration	3,044	-	3,044	-
Urban Mass Transportation Administration	9,359	-	-	9,359
Department of the Treasury, total	31,912	3,576	18,406	9,930
Bureau of Engraving and Printing	4,741	-	3,306	1,435
Internal Revenue Service	17,878	3,576	13,945	357
Office of Protective Research	505	-	505	-
United States Customs Service	8,477	-	650	7,827
United States Mint	311	-	-	311
Department of Veterans Affairs	220,800	15,800	182,700	22,300
Other agencies				
Advisory Commission on Intergovernmental Relations	1,416	-	1,416	-
Agency for International Development	355,716	10,193	288,860	56,663
Consumer Product Safety Commission	1,305	-	1,035	270
Environmental Protection Agency	482,935	114,496	280,942	87,497
Federal Communications Commission	1,414	-	1,414	-
Federal Trade Commission	519	-	519	-
International Trade Commission	11,790	-	11,790	-
Library of Congress	9,567	328	1,314	7,925
National Aeronautics and Space Administration	8,542,994	1,944,350	2,231,487	4,367,157
National Archives & Records Admin	550	150	310	90
National Science Foundation	2,101,632	1,965,308	136,324	-
Nuclear Regulatory Commission	250,938	-	250,938	-
Office of Thrift Supervision 4/	3,494	-	3,494	-
Smithsonian Institution	111,744	111,744	-	-
Tennessee Valley Authority	77,713	1,318	22,052	54,343
United States Arms Control and Disarmament Agency	2,000	-	2,000	-
United States Information Agency	650	-	650	-

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table 7. Federal obligations for total research and development, by agency and performer: fiscal year 1990

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	63,667.3	16,002.5	29,378.2	2,237.6	9,142.2	3,466.4	2,249.6	632.3	213.9	344.7
Departments										
Department of Agriculture, total	1,108.4	737.1	6.1	-	348.1	-	9.1	-	2.0	6.0
Agricultural Cooperative Service	2.7	2.5	-	-	.2	-	-	-	-	-
Agricultural Marketing Service 2/	2.7	2.5	-	-	.1	-	.1	-	*	-
Agricultural Research Service	545.5	505.5	-	-	32.7	-	3.5	-	.1	3.8
Animal & Plant Health Inspection Svc	8.0	7.5	-	-	.4	-	.1	-	-	-
Cooperative State Research Service	324.2	14.6	4.0	-	298.9	-	5.3	-	1.4	-
Economic Research Service	50.5	49.2	-	-	1.3	-	-	-	-	-
Federal Grain Inspection Service	.6	.4	-	-	.2	-	*	-	-	-
Forest Service	158.6	145.4	.3	-	12.3	-	*	-	.5	.1
Human Nutrition Information Service	9.0	5.8	1.7	-	1.5	-	-	-	-	-
Nat'l Agricultural Statistics Svc	2.8	2.5	*	-	.2	-	-	-	-	-
Off of Internat'l Cooperation & Development	3.6	1.2	-	-	.2	-	-	-	-	2.2
Department of Commerce, total	438.2	336.3	44.3	*	50.4	.1	.5	*	6.4	.1
Bureau of the Census	6.9	4.3	-	-	2.6	-	-	-	-	-
Economic Development Administration	1.2	.8	.2	-	.1	-	.1	-	-	-
Nat'l Institute of Standards & Tech	122.3	113.8	1.3	-	6.8	.1	.3	-	-	*
Nat'l Oceanic & Atmospheric Admin	300.1	209.8	42.8	*	40.9	-	.2	*	6.4	*
Nat'l Telecomm & Information Admin	7.7	7.7	-	-	-	-	-	-	-	-
Department of Defense, research 3/	3,529.2	1,209.1	1,294.6	31.1	795.1	76.9	85.1	17.4	-	20.0
Department of Defense, development 3/	33,738.9	8,429.9	24,148.8	387.8	418.3	581.6	203.4	398.7	*	170.4
Department of the Army R&D	5,684.1	2,036.9	3,328.1	11.5	117.2	118.3	48.4	12.0	-	11.6
Department of the Navy R&D	9,586.2	2,995.7	5,841.2	132.0	405.5	9.0	70.9	53.7	-	78.2
Department of the Air Force R&D	14,831.4	2,870.0	11,524.4	9.5	212.9	34.1	21.4	155.0	-	4.1
Defense agencies R&D	6,945.2	1,598.8	3,700.0	265.9	477.1	497.1	147.8	180.4	-	78.0
Test and Evaluation, Deputy Under Secretary Defense R&D	188.7	115.1	48.3	-	.6	-	-	6.2	*	18.5
Director, Operational Test and Evaluation R&D	32.6	22.3	1.4	-	-	-	-	8.8	-	-
Department of Education	169.9	17.7	16.3	-	92.2	-	41.3	-	2.3	.2
Department of Energy	5,630.6	307.3	776.8	1,718.2	500.4	2,020.5	135.2	156.8	10.1	5.3
Dept of Hlth & Human Services, total	8,405.6	1,661.7	358.1	16.4	4,874.3	28.4	1,302.4	18.4	101.8	44.1
Administration for Children and Families 4/	95.4	1.6	2.3	-	16.9	-	60.2	-	14.3	-
Agency for Health Care Policy & Research 5/	49.7	14.0	8.2	-	23.5	-	3.7	-	.1	.3
Alcohol, Drug Abuse & Mental Hlth Admin	842.7	230.0	9.2	-	474.1	.2	95.2	-	30.8	3.1
Centers for Disease Control	95.6	38.5	5.2	-	29.6	-	22.1	-	.2	-
Food & Drug Administration	99.0	92.1	-	-	5.9	-	1.0	-	-	-
Health Care Financing Admin	49.1	.3	13.3	-	8.4	-	25.3	-	1.7	.1
Health Resources and Services Administration	11.9	3.0	-	-	6.3	-	2.2	-	.4	-
National Institutes of Health	7,136.5	1,270.2	317.3	16.4	4,304.9	28.2	1,086.6	18.4	53.9	40.4
Office of Assistant Secretary for Health	6.9	6.0	-	-	-	-	1.0	-	-	-
Office of the Secretary	5.0	1.4	2.2	-	.5	-	.8	-	-	*
Social Security Administration	13.9	4.6	.3	-	4.1	-	4.5	-	.4	.1
Dept of Housing & Urban Development	19.3	14.2	4.0	-	.1	-	1.0	-	-	-
Department of the Interior, total	508.5	423.7	27.6	3.7	49.9	-	.3	-	2.8	.5
Bureau of Land Management	2.8	2.5	-	-	.4	-	-	-	-	-
Bureau of Mines	99.3	68.1	15.7	3.6	11.7	-	-	-	.3	-
Bureau of Reclamation	5.8	5.4	-	-	.3	-	.1	-	-	-
Geological Survey	308.4	269.2	11.7	-	24.9	-	-	-	2.5	*
Minerals Management Service	1.9	1.0	*	.2	.1	-	*	-	-	.5
National Park Service	20.1	14 3	-	-	5.6	-	.1	-	-	-
Office of the Secretary	.2	*	.2	-	-	-	-	-	-	-
Off of Surface Mining Reclamation & Enforcement	.7	*	-	-	.7	-	-	-	-	-
US Fish & Wildlife Service	69.4	63.2	-	-	6.2	-	-	-	-	-
Department of Justice, total	40.5	12.9	5.1	.2	6.7	.2	10.2	-	5.2	-
Drug Enforcement Administration	2.4	.3	1.6	.2	.1	.2	-	-	-	-
Federal Bureau of Investigation	8.2	8.2	-	-	-	-	-	-	-	-
Federal Prison System	4.5	1.8	-	-	.2	-	.2	-	2.3	-
Immigration & Naturalization Svc	.4	*	.4	-	-	-	-	-	-	-
Office of Justice Programs	25.0	2.5	3.1	-	6.4	-	10.0	-	2.9	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table 7. Federal obligations for total research and development, by agency and performer: fiscal year 1990

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Labor, total	73.0	8.0	8.6	-	5.9	-	7.0	-	43.5	*
Bureau of Labor Statistics	7.3	2.5	-	-	4.8	-	-	-	-	-
Employment Standards Administration	.1	.1	-	-	-	-	-	-	-	-
Employment and Training Admin	53.4	1.3	2.8	-	.8	-	5.8	-	42.7	*
Occupational Safety & Health Admin	2.5	.4	2.1	-	-	-	-	-	-	-
Office of the Secretary	7.1	2.9	2.0	-	.3	-	1.2	-	.8	-
Pension Benefit Guaranty Corporation	.5	.4	.1	-	-	-	-	-	-	-
Pension & Welfare Benefits Admin	2.1	0.5	1.6	-	-	-	-	-	-	-
Department of State	4.7	.2	.1	-	1.2	-	3.1	*	-	*
Department of Transportation, total	365.6	199.2	98.3	-	28.6	-	5.0	17.0	16.9	0.7
Coast Guard	20.2	14.2	6.0	-	-	-	-	-	-	-
Federal Aviation Administration	216.1	163.6	29.1	-	6.3	-	-	17.0	-	-
Federal Highway Administration	90.6	1.8	53.6	-	17.6	-	-	-	16.9	.6
Federal Railroad Administration	10.2	5.7	1.2	-	.2	-	3.1	-	-	-
Maritime Administration	.9	.3	.6	-	-	-	-	-	-	-
Nat'l Highway Traffic Safety Admin	16.9	7.2	4.1	-	3.7	-	1.9	-	-	*
Office of the Secretary	6.8	3.6	3.0	-	.2	-	-	-	-	-
Research & Special Programs Admin	2.4	1.7	.7	-	-	-	-	-	-	-
Urban Mass Transportation Admin	1.6	1.0	-	-	.6	-	-	-	-	-
Department of the Treasury, total	25.6	13.2	12.2	-	-	0.2	-	-	-	-
Bureau of Engraving and Printing	2.1	1.9	-	-	-	.2	-	-	-	-
Internal Revenue Service	16.8	10.9	5.9	-	-	-	-	-	-	-
Office of Protective Research	.5	.2	.2	-	-	-	-	-	-	-
United States Customs Service	6.2	.2	6.0	-	-	-	-	-	-	-
United States Mint	.1	*	*	-	-	-	-	-	-	-
Department of Veterans Affairs	237.7	235.4	-	-	2.3	-	-	-	-	-
Other agencies										
Advisory Comm on Intergov'tl Relations	1.5	1.5	-	-	-	-	-	-	-	-
Agency for Internat'l Development	334.6	23.1	26.5	-	79.4	-	128.9	-	-	76.7
Appalachian Regional Commission	.4	*	.1	-	.1	-	*	-	.1	-
Consumer Product Safety Commission	1.1	1.0	*	-	.1	-	-	-	-	-
Environmental Protection Agency	419.7	118.6	177.1	-	87.5	-	22.1	-	14.4	-
Federal Communications Commission	1.3	1.3	-	-	-	-	-	-	-	-
Federal Trade Commission	.5	.5	-	-	-	-	-	-	-	-
General Services Administration	.7	.7	-	-	-	-	-	-	-	-
International Trade Commission	9.1	9.1	-	-	-	-	-	-	-	-
Library of Congress	8.4	8.4	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	6,533.2	1,968.4	3,284.8	-	470.7	619.3	168.2	2.4	5.2	14.3
National Archives & Records Admin	.4	.3	*	-	-	*	-	-	-	*
National Science Foundation	1,689.5	86.3	72.1	0.4	1,320.9	106.1	98.0	.3	3.2	2.3
Nuclear Regulatory Commission	217.5	49.0	16.4	79.7	9.3	33.1	4.7	21.2	-	4.1
Office of Thrift Supervision 6/	4.1	4.1	-	-	-	-	-	-	-	-
Smithsonian Institution	84.0	84.0	-	-	-	-	-	-	-	-
Tennessee Valley Authority	64.9	39.9	-	-	.7	-	24.3	-	-	-
US Arms Control & Disarmament Agency	.2	*	.2	-	-	*	-	-	-	-
United States Information Agency	.5	.5	-	-	-	-	-	-	-	-

* Indicates amount less than $50,000

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In this Volume (Volume XL), Department of Defense (DOD) research is reported separately from DOD development. DOD states that more than 90 percent of its development reported for "universities and colleges" is performed at off campus, university-affiliated laboratories that are not involved in teaching.

4/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

5/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: Because of rounding, detail may not add to totals.

FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table 8. Federal obligations for total research and development, by agency and performer: fiscal year 1991 (est.)

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	63,217.9	16,469.2	26,970.2	2,267.2	10,067.8	3,694.7	2,549.7	675.9	241.1	282.1
Departments										
Department of Agriculture, total	1,218.6	788.2	5.8	*	408.4	-	9.6	-	2.1	4.6
Agricultural Cooperative Service	2.9	2.6	-	-	.2	-	-	-	-	-
Agricultural Marketing Service 2/	3.0	3.0	-	-	-	-	-	-	-	-
Agricultural Research Service	589.1	540.7	-	-	41.0	-	3.8	-	.1	3.5
Animal & Plant Health Inspection Svc	8.7	8.2	-	-	.4	-	.1	-	-	-
Cooperative State Research Service	376.7	16.7	4.7	-	348.2	-	5.7	-	1.4	-
Economic Research Service	54.4	53.2	-	-	1.2	-	-	-	-	-
Federal Grain Inspection Service	.8	.5	-	-	.3	-	-	-	-	-
Forest Service	167.6	150.9	.4	-	15.6	-	.1	-	.6	.1
Human Nutrition Information Service	10.0	8.5	.6	-	.9	-	-	-	-	-
Nat'l Agricultural Statistics Svc	2.9	2.6	-	*	.3	-	-	-	-	-
Off of Internat'l Cooperation & Development	2.5	1.2	-	-	.2	-	-	-	-	1.1
Department of Commerce, total	525.9	383.9	77.7	-	56.3	.1	.6	-	7.1	.1
Bureau of the Census	5.5	4.6	-	-	.9	-	-	-	-	-
Economic Development Administration	1.2	.8	-	-	.2	-	.2	-	-	-
Nat'l Institute of Standards & Tech	175.7	124.2	45.6	-	5.5	.1	.3	-	-	*
Nat'l Oceanic & Atmospheric Admin	335.5	246.4	32.1	-	49.7	-	.2	-	7.1	.1
Nat'l Telecomm & Information Admin	8.0	8.0	-	-	-	-	-	-	-	-
Department of Defense, research 3/	3,805.8	1,202.1	1,351.3	32.0	1,021.3	74.8	89.8	15.3	-	19.4
Department of Defense, development 3/	30,160.4	8,120.2	19,817.1	443.1	389.9	675.3	186.5	414.7	-	113.5
Department of the Army R&D	5,557.2	2,108.3	3,158.6	3.7	111.4	85.6	49.1	30.9	-	9.6
Department of the Navy R&D	8,849.6	2,852.8	5,288.3	145.9	394.9	7.4	48.2	52.9	-	59.2
Department of the Air Force R&D	11,900.1	2,311.3	9,213.5	7.6	193.8	27.1	19.6	123.5	-	3.7
Defense agencies R&D	7,446.5	1,937.6	3,450.3	318.0	710.6	626.2	159.4	204.3	-	40.1
Test and Evaluation, Deputy Under Secretary Defense R&D	200.1	111.6	57.7	-	.5	3.8	-	6.3	-	20.3
Director, Operational Test and Evaluation R&D	12.8	.7	-	-	-	-	-	12.1	-	-
Department of Education	207.3	19.5	17.9	-	96.8	12.4	58.2	-	2.4	-
Department of Energy	6,158.7	382.7	1,031.1	1,687.8	576.8	2,090.6	184.8	184.7	11.8	8.2
Dept of Hlth & Human Services, total	9,246.3	1,849.7	403.4	17.9	5,278.1	31.2	1,465.9	19.8	131.1	49.2
Administration for Children and Families 4/	148.1	1.8	2.4	-	20.9	-	94.0	-	29.0	-
Agency for Health Care Policy & Research 5/	95.8	23.1	17.0	-	47.7	-	7.5	-	.1	.5
Alcohol, Drug Abuse & Mental Hlth Admin	957.2	252.8	11.0	-	546.9	.2	106.8	-	35.5	4.0
Centers for Disease Control	109.6	50.6	6.0	-	29.6	-	23.2	-	.2	-
Food & Drug Administration	110.0	102.8	-	-	6.6	-	.6	-	-	-
Health Care Financing Admin	69.8	.3	18.3	-	10.4	-	34.1	-	6.5	.2
Health Resources and Services Administration	10.7	3.0	-	-	5.7	-	2.1	-	-	-
National Institutes of Health	7,705.1	1,392.2	346.7	17.9	4,602.5	31.0	1,191.5	19.8	59.1	44.3
Office of Assistant Secretary for Health	10.1	9.8	-	-	-	-	.4	-	-	-
Office of the Secretary	8.9	1.5	1.5	-	4.0	-	1.3	-	.5	.1
Social Security Administration	20.8	11.9	.3	-	3.9	-	4.5	-	.2	*
Dept of Housing & Urban Development	31.5	15.6	13.9	-	.2	-	1.7	-	-	-
Department of the Interior, total	588.8	481.6	41.6	3.7	55.9	-	.2	-	5.2	.7
Bureau of Land Management	5.5	2.2	-	-	3.3	-	-	-	-	-
Bureau of Mines	111.7	71.7	24.2	3.6	10.6	-	-	-	1.5	-
Bureau of Reclamation	8.6	8.6	-	-	-	-	-	-	-	-
Geological Survey	353.5	306.2	16.2	-	27.4	-	-	-	3.7	-
Minerals Management Service	2.6	1.1	.5	.1	.3	-	-	-	-	.7
National Park Service	25.2	18.3	-	-	6.7	-	.2	-	-	-
Office of the Secretary	.7	*	.7	-	-	-	-	-	-	-
Off of Surface Mining Reclamation & Enforcement	1.0	*	-	-	1.0	-	-	-	-	-
US Fish & Wildlife Service	80.1	73.5	-	-	6.6	-	-	-	-	-
Department of Justice, total	46.1	14.2	8.2	.3	6.0	-	13.6	-	3.9	-
Drug Enforcement Administration	2.1	.3	1.5	.3	-	-	-	-	-	-
Federal Bureau of Investigation	10.7	10.7	-	-	-	-	-	-	-	-
Federal Prison System	4.6	2.0	-	-	.2	-	.2	-	2.3	-
Immigration & Naturalization Svc	.4	*	.6	-	-	-	-	-	-	-
Office of Justice Programs	28.3	1.2	6.4	-	5.8	-	13.4	-	1.6	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table 8. Federal obligations for total research and development, by agency and performer: fiscal year 1991 (est.)

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Labor, total	75.4	7.2	11.8	-	7.0	-	6.8	-	42.6	*
Bureau of Labor Statistics	7.4	2.5	-	-	4.9	-	-	-	-	-
Employment Standards Administration	.2	.2	-	-	-	-	-	-	-	-
Employment and Training Admin	53.0	.6	3.8	-	1.7	-	5.0	-	42.0	-
Occupational Safety & Health Admin	3.3	.4	2.9	-	-	-	-	-	-	-
Office of the Secretary	8.5	2.6	3.1	-	.5	-	1.8	-	.6	*
Pension Benefit Guaranty Corporation	.5	.4	.1	-	-	-	-	-	-	-
Pension & Welfare Benefits Admin	2.5	0.5	2.0	-	-	-	-	-	-	-
Department of State	8.9	.3	.1	-	1.4	-	7.2	-	-	*
Department of Transportation, total	414.3	215.5	128.1	0.2	31.5	0.6	11.7	13.5	11.2	1.9
Coast Guard	24.6	17.4	7.3	-	-	-	-	-	-	-
Federal Aviation Administration	230.3	169.0	41.3	-	5.9	.6	-	13.5	-	-
Federal Highway Administration	105.6	2.3	64.9	.2	20.9	-	5.3	-	10.7	1.2
Federal Railroad Administration	23.2	11.0	6.9	-	.8	-	4.1	-	.5	-
Maritime Administration	1.0	.3	.5	-	.1	-	.1	-	-	-
Nat'l Highway Traffic Safety Admin	21.4	10.0	5.4	-	3.0	-	2.2	-	-	.7
Office of the Secretary	4.3	3.0	1.0	-	.2	-	-	.1	-	-
Research & Special Programs Admin	2.3	1.6	.7	-	-	-	-	-	-	-
Urban Mass Transportation Admin	1.6	1.0	-	-	.6	-	-	-	-	-
Department of the Treasury, total	29.3	17.1	12.0	-	-	.2	-	-	-	-
Bureau of Engraving and Printing	4.8	4.5	-	-	-	.2	-	-	-	-
Internal Revenue Service	17.9	11.9	5.9	-	-	-	-	-	-	-
Office of Protective Research	.5	.2	.3	-	-	-	-	-	-	-
United States Customs Service	5.2	.3	4.9	-	-	-	-	-	-	-
United States Mint	.9	.1	.9	-	-	-	-	-	-	-
Department of Veterans Affairs	243.2	240.9	-	-	2.3	-	-	-	-	-
Other agencies										
Advisory Comm on Intergov'tl Relations	1.5	1.5	-	-	-	-	-	-	-	-
Agency for Internat'l Development	322.4	18.5	24.7	-	63.6	-	151.6	-	-	64.0
Appalachian Regional Commission	.3	.1	*	-	-	-	-	-	.2	-
Consumer Product Safety Commission	1.5	1.4	.1	-	-	-	-	-	-	-
Environmental Protection Agency	425.4	130.0	161.6	-	87.5	-	31.5	-	14.9	-
Federal Communications Commission	1.6	1.6	-	-	-	-	-	-	-	-
Federal Trade Commission	.5	.5	-	-	-	-	-	-	-	-
International Trade Commission	10.9	10.9	-	-	-	-	-	-	-	-
Library of Congress	9.2	9.2	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	7,434.6	2,271.3	3,751.8	-	533.0	665.3	191.3	2.4	5.2	14.3
National Archives & Records Admin	.7	.6	-	-	-	.1	-	-	-	-
National Science Foundation	1,847.0	86.7	91.0	.4	1,440.2	110.5	112.2	.1	3.5	2.5
Nuclear Regulatory Commission	229.6	50.9	20.9	81.8	10.9	33.5	2.5	25.4	-	3.6
Office of Thrift Supervision 6/	3.3	3.3	-	-	-	-	-	-	-	-
Smithsonian Institution	98.2	98.2	-	-	-	-	-	-	-	-
Tennessee Valley Authority	70.0	45.4	-	-	.7	-	24.0	-	-	-
US Arms Control & Disarmament Agency	.3	.1	.1	-	*	*	-	-	-	-
United States Information Agency	.4	.4	-	-	-	-	-	-	-	-

* Indicates amount less than $50,000

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In this Volume (Volume XL), Department of Defense (DOD) research is reported separately from DOD development. DOD states that more than 90 percent of its development reported for "universities and colleges" is performed at off campus, university-affiliated laboratories that are not involved in teaching.

4/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

5/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: Because of rounding, detail may not add to totals.

FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table 9. Federal obligations for total research and development, by agency and performer: fiscal year 1992 (est.)

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Total, all agencies	70,427.4	17,645.4	31,929.6	2,376.9	10,475.4	4,126.0	2,618.5	713.8	249.6	292.2
Departments										
Department of Agriculture, total	1,255.7	826.4	9.3	*	409.5	-	5.1	-	1.8	3.6
Agricultural Cooperative Service	3.0	2.8	-	-	.2	-	-	-	-	-
Agricultural Marketing Service 2/	3.2	3.2	-	-	-	-	-	-	-	-
Agricultural Research Service	623.5	574.9	-	-	41.0	-	4.0	-	.1	3.5
Animal & Plant Health Inspection Svc	9.2	8.6	-	-	.4	-	.1	-	-	-
Cooperative State Research Service	373.2	17.3	4.7	-	349.0	-	1.0	-	1.1	-
Economic Research Service	62.5	61.3	-	-	1.2	-	-	-	-	-
Federal Grain Inspection Service	.8	.5	-	-	.3	-	-	-	-	-
Forest Service	163.2	147.1	.4	-	15.1	-	.1	-	.5	.1
Human Nutrition Information Service	12.7	6.8	4.3	-	1.6	-	-	-	-	-
Nat'l Agricultural Statistics Svc	3.0	2.7	-	*	.3	-	-	-	-	-
Off of Internat'l Cooperation & Development	1.6	1.3	-	-	.2	-	-	-	-	-
Department of Commerce, total	539.0	430.5	68.6	-	39.0	.1	.4	-	.3	.1
Bureau of the Census	5.8	4.6	-	-	1.2	-	-	-	-	-
Nat'l Institute of Standards & Tech	186.0	144.1	37.5	-	4.0	.1	.3	-	-	*
Nat'l Oceanic & Atmospheric Admin	337.2	271.8	31.1	-	33.8	-	.1	-	.3	.1
Nat'l Telecomm & Information Admin	10.0	10.0	-	-	-	-	-	-	-	-
Department of Defense, research 3/	3,911.5	1,365.1	1,425.9	27.8	920.8	48.3	95.4	4.3	-	23.8
Department of Defense, development 3/	34,858.4	8,524.5	24,042.1	457.2	365.8	750.7	198.9	418.4	.5	100.3
Department of the Army R&D	6,457.5	2,169.2	3,964.3	2.7	111.3	153.0	18.4	28.1	-	10.6
Department of the Navy R&D	8,427.0	2,805.2	4,909.5	147.5	412.8	6.7	50.0	51.3	-	43.9
Department of the Air Force R&D	15,115.5	2,930.4	11,726.7	9.6	228.9	34.6	23.4	157.4	-	4.4
Defense agencies R&D	8,480.8	1,797.8	4,796.3	325.2	532.6	604.6	202.5	156.5	-	65.2
Test and Evaluation, Deputy Under Secretary Defense R&D	275.0	186.4	71.2	-	1.0	-	-	15.9	.5	-
Director, Operational Test and Evaluation R&D	14.1	.6	-	-	-	-	-	13.5	-	-
Department of Education	222.2	22.1	16.6	-	115.4	-	62.4	-	5.6	-
Department of Energy	6,498.7	448.8	1,156.4	1,774.9	491.4	2,252.2	127.1	222.2	8.8	16.9
Dept of Hlth & Human Services, total	9,780.5	1,965.7	414.7	19.1	5,616.2	33.4	1,512.2	21.0	146.4	51.9
Administration for Children and Families 4/	153.2	1.9	2.5	-	24.2	-	81.6	-	43.1	-
Agency for Health Care Policy & Research 5/	34.3	17.8	7.3	-	7.9	-	1.2	-	*	.1
Alcohol, Drug Abuse & Mental Hlth Admin	1,022.2	267.3	11.9	-	585.8	.3	115.0	-	37.5	4.3
Centers for Disease Control	113.3	52.8	6.3	-	29.6	-	24.3	-	.2	-
Food & Drug Administration	125.3	116.5	-	-	7.5	-	1.3	-	-	-
Health Care Financing Admin	36.0	.3	15.2	-	9.6	-	8.7	-	2.0	.1
Health Resources and Services Administration	10.9	3.3	-	-	5.5	-	2.1	-	-	-
National Institutes of Health	8,252.7	1,485.5	369.6	19.1	4,942.4	33.1	1,271.7	21.0	63.1	47.3
Office of Assistant Secretary for Health	3.9	2.5	-	-	-	-	1.4	-	-	-
Office of the Secretary	5.0	1.5	1.5	-	1.0	-	1.0	-	-	-
Social Security Administration	23.7	16.3	.4	-	2.6	-	3.8	-	.6	.1
Dept of Housing & Urban Development	36.4	13.9	18.1	-	.2	-	4.2	-	-	-
Department of the Interior, total	561.8	478.7	25.8	3.3	49.8	-	1.0	-	1.7	1.5
Bureau of Land Management	11.6	4.2	-	-	7.4	-	-	-	-	-
Bureau of Mines	82.2	66.8	7.2	3.0	5.2	-	-	-	-	-
Bureau of Reclamation	11.7	10.7	-	-	.3	-	.7	-	-	-
Geological Survey	339.1	302.7	15.8	-	18.9	-	-	-	1.7	-
Minerals Management Service	5.7	1.8	1.2	.3	.9	-	-	-	-	1.5
National Park Service	29.0	21.3	-	-	7.5	-	.3	-	-	-
Office of the Secretary	1.1	.1	1.0	-	-	-	-	-	-	-
Off of Surface Mining Reclamation & Enforcement	2.9	*	.6	-	2.3	-	-	-	-	-
US Fish & Wildlife Service	78.5	71.3	-	-	7.2	-	-	-	-	-
Department of Justice, total	43.0	16.0	7.3	-	5.5	.5	9.1	.3	4.4	-
Drug Enforcement Administration	3.3	.4	1.9	-	-	.5	.2	.3	-	-
Federal Bureau of Investigation	10.8	10.8	-	-	-	-	-	-	-	-
Federal Prison System	4.4	1.9	-	-	.2	-	.1	-	2.3	-
Immigration & Naturalization Svc	.4	*	.4	-	-	-	-	-	-	-
Office of Justice Programs	24.1	2.9	5.1	-	5.3	-	8.7	-	2.1	-

See explanatory information, if any, and SOURCE(s) at end of table.

Table 9. Federal obligations for total research and development, by agency and performer: fiscal year 1992 (est.)

[Dollars in millions]

Agency and subdivision	Total	Intramural 1/	Extramural							
			United States and territories							Foreign
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts	
Department of Labor, total	67.3	7.8	11.9	6.9	2.5	-	4.7	-	33.6	-
Bureau of Labor Statistics	7.7	2.9	-	4.8	-	-	-	-	-	-
Employment Standards Administration	.1	.1	-	-	-	-	-	-	-	-
Employment and Training Admin	39.1	.6	1.9	-	.7	-	2.4	-	33.5	-
Occupational Safety & Health Admin	3.3	.4	2.9	-	-	-	-	-	-	-
Office of the Secretary	13.9	2.7	7.2	-	1.7	-	2.2	-	.1	-
Pension Benefit Guaranty Corporation	.5	.5	-	-	-	-	-	-	-	-
Pension & Welfare Benefits Admin	2.6	0.5	-	2.1	-	-	-	-	-	-
Department of State	9.0	.3	0.1	-	7.8	-	0.8	*	-	*
Department of Transportation, total	434.9	239.4	122.1	.1	26.8	-	12.0	14.3	18.3	1.9
Coast Guard	28.4	20.0	8.4	-	-	-	-	-	-	-
Federal Aviation Administration	234.1	183.8	33.2	-	2.8	-	-	14.3	-	-
Federal Highway Administration	102.6	4.2	64.8	.1	15.9	-	4.4	-	12.3	.9
Federal Railroad Administration	25.8	11.3	7.2	-	.7	-	4.7	-	2.0	-
Maritime Administration	2.0	.5	1.1	-	.1	-	.3	-	-	-
Nat'l Highway Traffic Safety Admin	23.7	11.1	5.9	-	3.0	-	2.7	-	-	1.0
Office of the Secretary	5.9	4.4	1.5	-	-	-	-	-	-	-
Research & Special Programs Admin	3.0	2.8	-	-	.2	-	-	-	-	-
Urban Mass Transportation Admin	9.4	1.2	-	-	4.2	-	-	-	4.0	-
Department of the Treasury, total	31.9	17.1	14.6	-	-	0.2	-	-	-	-
Bureau of Engraving and Printing	4.7	4.5	-	-	-	.2	-	-	-	-
Internal Revenue Service	17.9	11.9	5.9	-	-	-	-	-	-	-
Office of Protective Research	.5	.3	.3	-	-	-	-	-	-	-
United States Customs Service	8.5	.3	8.2	-	-	-	-	-	-	-
United States Mint	.3	.1	.2	-	-	-	-	-	-	-
Department of Veterans Affairs	220.8	218.5	-	-	2.3	-	-	-	-	-
Other agencies										
Advisory Comm on Intergov'tl Relations	1.4	1.4	-	-	-	-	-	-	-	-
Agency for Internat'l Development	355.7	14.1	54.3	-	48.4	-	168.3	-	-	70.7
Consumer Product Safety Commission	1.3	1.1	.2	-	-	-	-	-	-	-
Environmental Protection Agency	482.9	104.0	202.8	-	121.2	-	35.8	-	19.1	-
Federal Communications Commission	1.4	1.4	-	-	-	-	-	-	-	-
Federal Trade Commission	.5	.5	-	-	-	-	-	-	-	-
International Trade Commission	11.8	11.8	-	-	-	-	-	-	-	-
Library of Congress	9.6	9.6	-	-	-	-	-	-	-	-
National Aeronautics & Space Admin	8,543.0	2,612.7	4,204.8	-	600.0	883.8	219.8	2.4	5.2	14.3
National Archives & Records Admin	.6	.3	-	-	-	.3	-	-	-	-
National Science Foundation	2,101.6	88.5	112.4	.6	1,638.1	122.2	133.0	.1	4.0	2.8
Nuclear Regulatory Commission	250.9	56.3	20.7	87.0	13.8	34.2	4.0	30.7	-	4.3
Office of Thrift Supervision 6/	3.5	3.5	-	-	-	-	-	-	-	-
Smithsonian Institution	111.7	111.7	-	-	-	-	-	-	-	-
Tennessee Valley Authority	77.7	52.4	-	-	.9	-	24.4	-	-	-
US Arms Control & Disarmament Agency	2.0	.7	.9	.1	*	.2	.1	.1	-	-
United States Information Agency	.7	.7	-	-	-	-	-	-	-	-

* Indicates amount less than $50,000

1/ Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance

2/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

3/ In this Volume (Volume XL), Department of Defense (DOD) research is reported separately from DOD development. DOD states that more than 90 percent of its development reported for "universities and colleges" is performed at off campus, university-affiliated laboratories that are not involved in teaching.

4/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

5/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

6/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

NOTE: Because of rounding, detail may not add to totals.

FFRDCs = Federally funded research and development centers

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table 10. Federal obligations for research, by agency and field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	21,738,866	8,837,819	448,601	3,808,723	2,174,084	840,737	4,335,171	629,990	663,741
Departments									
Department of Agriculture, total	1,069,256	832,082	292	71,924	13,014	12,004	38,885	101,055	-
Agricultural Cooperative Service	2,721	-	-	-	-	-	-	2,721	-
Agricultural Marketing Service 1/	2,240	2,240	-	-	-	-	-	-	-
Agricultural Research Service	512,261	456,825	-	45,177	1,892	1,513	6,854	-	-
Animal & Plant Health Inspection Svc	7,970	7,970	-	-	-	-	-	-	-
Cooperative State Research Service	324,243	253,176	-	15,612	771	-	16,758	37,926	-
Economic Research Service	50,534	-	-	-	-	-	-	50,534	-
Federal Grain Inspection Service	222	222	-	-	-	-	-	-	-
Forest Service	153,800	99,170	292	11,135	10,351	7,705	15,273	9,874	-
Human Nutrition Information Service	9,031	9,031	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	2,786	-	-	-	-	2,786	-	-	-
Off of Internat'l Cooperation & Development	3,448	3,448	-	-	-	-	-	-	-
Department of Commerce, total	376,994	14,303	875	65,188	217,380	15,222	56,835	3,226	3,965
Bureau of the Census	4,865	-	712	-	-	3,573	-	529	51
Economic Development Administration	1,188	-	-	-	-	-	-	1,188	-
Nat'l Institute of Standards & Tech	111,755	-	-	51,476	232	9,808	50,009	230	-
Nat'l Oceanic & Atmospheric Admin	252,408	14,303	163	13,712	217,148	1,518	3,856	1,279	129
Nat'l Telecomm & Information Admin	6,778	-	-	-	-	23	2,970	-	3,785
Department of Defense, total	3,529,229	284,459	105,612	498,247	279,894	445,319	1,762,244	1,760	151,694
Department of the Army	780,237	153,351	40,259	100,084	24,439	65,425	376,971	1,760	17,948
Department of the Navy	807,594	41,068	29,927	122,647	113,847	80,639	408,786	-	10,680
Department of the Air Force	776,344	56,648	33,964	113,139	59,263	46,615	466,715	-	-
Defense agencies	1,165,054	33,392	1,462	162,377	82,345	252,640	509,772	-	123,066
Department of Education	130,252	18,768	5,786	-	-	805	4,959	99,934	-
Department of Energy	2,570,483	214,162	-	1,577,130	278,595	53,523	435,646	-	11,427
Dept of Hlth & Human Services, total	7,467,093	6,408,890	297,845	129,193	-	18,875	68,918	215,286	328,086
Administration for Children and Families 2/	7,728	-	-	-	-	-	-	7,728	-
Agency for Health Care Policy & Research 3/	44,200	-	-	-	-	-	-	44,200	-
Alcohol, Drug Abuse & Mental Hlth Admin	801,198	488,720	201,001	9,926	-	1,807	806	75,006	23,932
Centers for Disease Control	95,600	95,600	-	-	-	-	-	-	-
Food & Drug Administration	99,000	99,000	-	-	-	-	-	-	-
Health Care Financing Admin	49,111	-	-	-	-	-	-	49,111	-
Health Resources and Services Administration	11,856	11,856	-	-	-	-	-	-	-
National Institutes of Health	6,335,800	5,707,870	96,844	119,267	-	16,768	68,112	22,785	304,154
Office of Asst Secy for Health	5,844	5,844	-	-	-	-	-	-	-
Office of the Secretary	4,966	-	-	-	-	300	-	4,666	-
Social Security Administration	11,790	-	-	-	-	-	-	11,790	-
Dept of Housing & Urban Development	6,595	-	-	172	-	61	91	5,998	273
Department of the Interior, total	475,214	82,860	-	28,722	260,951	12,032	88,419	2,131	99
Bureau of Land Management	2,100	2,000	-	-	100	-	-	-	-
Bureau of Mines	89,912	-	-	-	12,778	-	77,134	-	-
Bureau of Reclamation	5,326	1,168	-	1,203	267	-	2,589	-	99
Geological Survey	293,248	1,283	-	27,334	245,952	11,838	6,841	-	-
Minerals Management Service	1,855	-	-	-	-	-	1,855	-	-
National Park Service	20,087	15,980	-	-	1,854	122	-	2,131	-
Off of Surface Mining Reclamation & Enforcement	686	429	-	185	-	72	-	-	-
US Fish & Wildlife Service	62,000	62,000	-	-	-	-	-	-	-
Department of Justice, total	19,871	852	678	377	-	90	575	14,856	2,743
Drug Enforcement Administration	354	179	-	-	-	-	175	-	-
Federal Prison System	1,800	-	400	-	-	-	-	1,400	-
Immigration & Naturalization Svc	400	-	-	-	-	-	400	-	-
Office of Justice Programs	17,317	673	278	377	-	90	-	13,156	2,743

See explanatory information, if any, and SOURCE(s) at end of table.

Table 10. Federal obligations for research, by agency and field of science and engineering: fiscal year 1990

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Department of Labor, total	21,633	-	-	-	-	-	-	21,633	-
Bureau of Labor Statistics	7,300	-	-	-	-	-	-	7,300	-
Employment Standards Administration	53	-	-	-	-	-	-	53	-
Employment and Training Admin	6,006	-	-	-	-	-	-	6,006	-
Occupational Safety & Health Admin	2,526	-	-	-	-	-	-	2,526	-
Office of the Secretary	3,338	-	-	-	-	-	-	3,338	-
Pension Benefit Guaranty Corporation	300	-	-	-	-	-	-	300	-
Pension & Welfare Benefits Admin	2,110	-	-	-	-	-	-	2,110	-
Department of State	4,692	-	-	-	-	-	-	4,692	-
Department of Transportation, total	118,945	2,000	-	9,143	4,820	7,262	91,885	3,835	-
Coast Guard	5,058	-	-	170	-	1,450	2,785	653	-
Federal Aviation Administration	26,125	-	-	-	-	-	26,125	-	-
Federal Highway Administration	57,417	-	-	8,373	4,750	3,362	40,455	477	-
Federal Railroad Administration	8,464	-	-	-	-	-	8,126	338	-
Maritime Administration	900	-	-	-	70	10	820	-	-
Nat'l Highway Traffic Safety Admin	16,930	2,000	-	-	-	2,440	10,273	2,217	-
Office of the Secretary	1,670	-	-	600	-	-	920	150	-
Research & Special Programs Admin	2,381	-	-	-	-	-	2,381	-	-
Department of the Treasury, total	18,706	242	236	1,764	-	10,504	-	5,960	-
Bureau of Engraving and Printing	1,364	-	-	1,364	-	-	-	-	-
Internal Revenue Service	16,464	-	-	-	-	10,504	-	5,960	-
Office of Protective Research	478	242	236	-	-	-	-	-	-
United States Customs Service	400	-	-	[illegible]	-	-	-	-	-
Department of Veterans Affairs	215,600	196,166	14,366	-	-	-	5,068	-	-
Other agencies									
Advisory Comm on Intergov'tl Relations	1,513	-	-	-	-	-	-	1,513	-
Agency for Internat'l Development	305,219	206,611	-	-	419	2,840	4,324	55,550	35,475
Appalachian Regional Commission	401	-	-	-	-	-	-	-	401
Consumer Product Safety Commission	440	-	-	279	-	-	161	-	-
Environmental Protection Agency	315,242	137,202	1,176	41,017	65,591	4,268	61,489	219	4,280
Federal Communications Commission	1,329	-	-	-	-	70	851	408	-
Federal Trade Commission	459	-	-	-	-	-	-	459	-
General Services Administration	665	-	-	-	-	-	665	-	-
International Trade Commission	9,065	-	-	-	-	-	-	9,065	-
Library of Congress	1,461	-	-	-	-	-	-	-	1,461
National Aeronautics & Space Admin	3,060,691	140,333	10,808	890,205	607,642	70,845	1,324,603	84	16,171
National Archives & Records Admin	255	-	-	230	-	25	-	-	-
National Science Foundation	1,689,535	262,470	10,927	468,670	438,442	186,924	171,579	49,225	101,298
Nuclear Regulatory Commission	217,524	-	-	-	-	-	217,524	-	-
Office of Thrift Supervision 4/	4,126	-	-	-	-	-	-	4,126	-
Smithsonian Institution	83,987	30,350	-	18,066	6,599	-	-	28,972	-
Tennessee Valley Authority	21,723	6,069	-	8,396	737	-	-	153	6,368
US Arms Control & Disarmament Agency	218	-	-	-	-	68	-	150	-
United States Information Agency	450	-	-	-	-	-	450	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table 11. Federal obligations for research, by agency and field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	24,071,967	9,670,250	486,549	4,122,648	2,449,805	945,594	4,923,513	772,186	701,422
Departments									
Department of Agriculture, total	1,176,808	919,697	309	79,774	14,994	12,717	41,223	108,094	-
Agricultural Cooperative Service	2,870	-	-	-	-	-	-	2,870	-
Agricultural Marketing Service 1/	2,512	2,512	-	-	-	-	-	-	-
Agricultural Research Service	553,151	491,200	-	50,107	3,230	1,641	6,973	-	-
Animal & Plant Health Inspection Svc	8,713	8,713	-	-	-	-	-	-	-
Cooperative State Research Service	376,722	299,579	-	17,881	807	-	18,083	40,372	-
Economic Research Service	54,400	-	-	-	-	-	-	54,400	-
Federal Grain Inspection Service	334	334	-	-	-	-	-	-	-
Forest Service	162,800	104,973	309	11,786	10,957	8,156	16,167	10,452	-
Human Nutrition Information Service	9,998	9,998	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	2,920	-	-	-	-	2,920	-	-	-
Off of Internat'l Cooperation & Development	2,388	2,388	-	-	-	-	-	-	-
Department of Commerce, total	444,647	14,624	582	71,996	255,463	24,484	70,813	3,227	3,458
Bureau of the Census	3,610	-	434	-	-	2,491	-	625	60
Economic Development Administration	1,190	-	-	-	-	-	-	1,190	-
Nat'l Institute of Standards & Tech	140,360	-	-	56,084	356	20,175	63,570	175	-
Nat'l Oceanic & Atmospheric Admin	292,439	14,624	148	15,912	255,107	1,818	3,458	1,237	135
Nat'l Telecomm & Information Admin	7,048	-	-	-	-	-	3,785	-	3,263
Department of Defense, total	3,805,846	301,410	101,946	492,689	295,059	490,430	1,972,193	11,586	140,533
Department of the Army	786,076	153,984	36,438	89,320	23,749	67,471	388,529	1,586	24,999
Department of the Navy	878,933	44,897	31,773	134,526	126,298	87,631	443,849	-	9,959
Department of the Air Force	712,515	52,775	30,905	107,812	54,668	47,323	419,032	-	-
Defense agencies	1,428,322	49,754	2,830	161,031	90,344	288,005	720,783	10,000	105,575
Department of Education	156,374	19,271	5,027	-	-	914	5,484	125,678	-
Department of Energy	2,962,987	287,729	-	1,753,863	315,331	63,984	528,325	-	13,755
Dept of Hlth & Human Services, total	8,200,352	6,974,038	334,536	140,824	-	20,638	74,705	302,465	353,146
Administration for Children and Families 2/	8,944	-	-	-	-	-	-	8,944	-
Agency for Health Care Policy & Research 3/	87,200	-	-	-	-	-	-	87,200	-
Alcohol, Drug Abuse & Mental Hlth Admin	909,217	556,459	229,721	11,684	-	2,101	966	84,245	24,041
Centers for Disease Control	109,600	109,600	-	-	-	-	-	-	-
Food & Drug Administration	110,000	110,000	-	-	-	-	-	-	-
Health Care Financing Admin	69,778	-	-	-	-	-	-	69,778	-
Health Resources and Services Administration	10,746	10,746	-	-	-	-	-	-	-
National Institutes of Health	6,857,200	6,177,607	104,815	129,140	-	18,137	73,739	24,662	329,105
Office of Asst Secy for Health	9,631	9,631	-	-	-	-	-	-	-
Office of the Secretary	8,928	-	-	-	-	400	-	8,528	-
Social Security Administration	19,108	-	-	-	-	-	-	19,108	-
Dept of Housing & Urban Development	11,400	-	-	-	202	193	349	8,184	2,472
Department of the Interior, total	549,298	96,173	-	35,463	299,362	13,906	100,844	3,550	-
Bureau of Land Management	3,719	2,719	-	-	1,000	-	-	-	-
Bureau of Mines	103,412	-	-	-	17,013	-	86,399	-	-
Bureau of Reclamation	7,800	1,845	-	1,787	290	-	3,878	-	-
Geological Survey	335,815	1,909	-	33,676	278,189	13,706	7,985	350	-
Minerals Management Service	2,582	-	-	-	-	-	2,582	-	-
National Park Service	25,200	19,600	-	-	2,200	200	-	3,200	-
Off of Surface Mining Reclamation & Enforcement	970	300	-	-	670	-	-	-	-
US Fish & Wildlife Service	69,800	69,800	-	-	-	-	-	-	-
Department of Justice, total	21,314	100	700	75	-	300	745	17,244	2,150
Drug Enforcement Administration	345	-	-	-	-	-	345	-	-
Federal Prison System	1,800	-	400	-	-	-	-	1,400	-
Immigration & Naturalization Svc	400	-	-	-	-	-	400	-	-
Office of Justice Programs	18,769	100	300	75	-	300	-	15,844	2,150

See explanatory information, if any, and SOURCE(s) at end of table.

Table 11. Federal obligations for research, by agency and field of science and engineering: fiscal year 1991 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Department of Labor, total	24,787	-	-	-	-	-	-	24,787	-
Bureau of Labor Statistics	7,400	-	-	-	-	-	-	7,400	-
Employment Standards Administration	181	-	-	-	-	-	-	181	-
Employment and Training Admin	6,664	-	-	-	-	-	-	6,664	-
Occupational Safety & Health Admin	3,265	-	-	-	-	-	-	3,265	-
Office of the Secretary	4,382	-	-	-	-	-	-	4,382	-
Pension Benefit Guaranty Corporation	355	-	-	-	-	-	-	355	-
Pension & Welfare Benefits Admin	2,540	-	-	-	-	-	-	2,540	-
Department of State	8,930	-	-	-	-	-	-	8,930	-
Department of Transportation, total	145,618	924	527	8,832	4,451	7,407	117,815	5,662	-
Coast Guard	6,150	-	527	-	801	1,607	3,215	-	-
Federal Aviation Administration	28,013	-	-	-	-	-	28,013	-	-
Federal Highway Administration	66,922	-	-	7,474	3,650	3,198	51,710	890	-
Federal Railroad Administration	19,283	-	-	1,158	-	-	16,197	1,928	-
Maritime Administration	1,000	-	-	-	-	-	1,000	-	-
Nat'l Highway Traffic Safety Admin	21,368	924	-	-	-	2,602	15,070	2,772	-
Office of the Secretary	622	-	-	200	-	-	350	72	-
Research & Special Programs Admin	2,260	-	-	-	-	-	2,260	-	-
Department of the Treasury, total	21,619	250	243	3,155	-	11,178	450	6,343	-
Bureau of Engraving and Printing	3,095	-	-	2,645	-	-	450	-	-
Internal Revenue Service	17,521	-	-	-	-	11,178	-	6,343	-
Office of Protective Research	493	250	243	-	-	-	-	-	-
United States Customs Service	510	-	-	510	-	-	-	-	-
Department of Veterans Affairs	220,900	200,279	15,556	-	-	-	5,065	-	-
Other agencies									
Advisory Comm on Intergov'tl Relations	1,528	-	-	-	-	-	-	1,528	-
Agency for Internat'l Development	289,997	198,322	-	-	663	3,578	2,551	44,060	40,823
Appalachian Regional Commission	302	-	-	-	-	-	-	-	302
Consumer Product Safety Commission	1,102	-	-	178	-	-	924	-	-
Environmental Protection Agency	342,685	152,179	952	49,241	62,657	8,296	64,952	235	4,173
Federal Communications Commission	1,561	-	-	-	-	75	1,062	424	-
Federal Trade Commission	493	-	-	-	-	-	-	493	-
International Trade Commission	10,906	-	-	-	-	-	-	10,906	-
Library of Congress	1,579	-	-	-	-	-	-	-	1,579
National Aeronautics & Space Admin	3,463,870	178,206	13,176	946,336	700,237	81,127	1,519,187	95	25,506
National Archives & Records Admin	611	-	-	541	-	70	-	-	-
National Science Foundation	1,847,037	281,647	12,995	502,670	493,568	206,272	186,848	54,509	108,528
Nuclear Regulatory Commission	229,578	-	-	-	-	-	229,578	-	-
Office of Thrift Supervision 4/	3,291	-	-	-	-	-	-	3,291	-
Smithsonian Institution	98,180	35,642	-	24,838	7,068	-	-	30,632	-
Tennessee Valley Authority	27,692	9,759	-	12,028	750	-	-	158	4,997
US Arms Control & Disarmament Agency	275	-	-	145	-	25	-	105	-
United States Information Agency	400	-	-	-	-	-	400	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

Table 12. Federal obligations for research, by agency and field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Total, all agencies	25,683,410	10,229,939	522,332	4,523,475	2,627,128	1,007,043	5,359,324	705,701	708,468
Departments									
Department of Agriculture, total	1,211,837	954,959	301	82,804	14,908	12,692	36,795	109,378	-
Agricultural Cooperative Service	3,018	-	-	-	-	-	-	3,018	-
Agricultural Marketing Service 1/	2,671	2,671	-	-	-	-	-	-	-
Agricultural Research Service	585,421	519,854	-	53,031	3,419	1,737	7,380	-	-
Animal & Plant Health Inspection Svc	9,184	9,184	-	-	-	-	-	-	-
Cooperative State Research Service	373,151	306,651	-	18,298	822	-	13,675	33,705	-
Economic Research Service	62,479	-	-	-	-	-	-	62,479	-
Federal Grain Inspection Service	334	334	-	-	-	-	-	-	-
Forest Service	158,500	102,200	301	11,475	10,667	7,941	15,740	10,176	-
Human Nutrition Information Service	12,654	12,654	-	-	-	-	-	-	-
Nat'l Agricultural Statistics Svc	3,014	-	-	-	-	3,014	-	-	-
Off of Internat'l Cooperation & Development	1,411	1,411	-	-	-	-	-	-	-
Department of Commerce, total	452,174	10,527	626	73,740	260,883	24,868	76,027	2,045	3,458
Bureau of the Census	3,901	-	488	-	-	2,728	-	625	60
Nat'l Institute of Standards & Tech	150,277	-	-	60,428	478	20,322	68,866	183	-
Nat'l Oceanic & Atmospheric Admin	290,948	10,527	138	13,312	260,405	1,818	3,376	1,237	135
Nat'l Telecomm & Information Admin	7,048	-	-	-	-	-	3,785	-	3,263
Department of Defense, total	3,911,471	309,475	107,610	649,605	300,712	483,201	1,963,098	1,472	96,298
Department of the Army	862,337	147,338	35,130	130,282	35,656	81,203	415,786	1,472	15,461
Department of the Navy	939,430	48,487	34,044	143,045	131,806	94,148	478,394	-	9,506
Department of the Air Force	850,994	65,844	37,650	128,387	67,826	56,550	494,737	-	-
Defense agencies	1,258,710	47,806	777	247,891	65,424	251,300	574,181	-	71,331
Department of Education	164,983	19,834	5,357	-	-	974	5,844	132,974	-
Department of Energy	2,942,365	220,417	-	1,791,790	344,934	86,756	488,620	-	9,848
Dept of Hlth & Human Services, total	8,671,223	7,465,170	357,346	151,479	-	21,973	80,079	219,709	375,467
Administration for Children and Families 2/	8,774	-	-	-	-	-	-	8,774	-
Agency for Health Care Policy & Research 3/	31,200	-	-	-	-	-	-	31,200	-
Alcohol, Drug Abuse & Mental Hlth Admin	969,120	595,444	245,144	12,885	-	2,238	1,042	88,929	23,438
Centers for Disease Control	113,300	113,300	-	-	-	-	-	-	-
Food & Drug Administration	125,300	125,300	-	-	-	-	-	-	-
Health Care Financing Admin	36,000	-	-	-	-	-	-	36,000	-
Health Resources and Services Administration	10,898	10,898	-	-	-	-	-	-	-
National Institutes of Health	7,345,600	6,617,928	112,202	138,594	-	19,435	79,037	26,375	352,029
Office of Asst Secy for Health	2,300	2,300	-	-	-	-	-	-	-
Office of the Secretary	5,037	-	-	-	-	300	-	4,737	-
Social Security Administration	23,694	-	-	-	-	-	-	23,694	-
Dept of Housing & Urban Development	13,202	-	-	-	151	660	320	7,378	4,693
Department of the Interior, total	520,199	98,039	-	38,748	280,492	15,128	83,730	4,062	-
Bureau of Land Management	7,851	4,739	-	-	3,000	-	-	112	-
Bureau of Mines	76,752	-	-	-	11,212	-	65,540	-	-
Bureau of Reclamation	10,600	1,405	-	4,965	380	-	3,850	-	-
Geological Survey	321,060	2,195	-	33,783	261,600	14,828	8,204	450	-
Minerals Management Service	5,714	-	-	-	-	-	5,714	-	-
National Park Service	29,000	22,500	-	-	2,700	300	-	3,500	-
Off of Surface Mining Reclamation & Enforcement	2,922	900	-	-	1,600	-	422	-	-
US Fish & Wildlife Service	66,300	66,300	-	-	-	-	-	-	-
Department of Justice, total	18,045	300	1,925	-	125	900	745	13,550	500
Drug Enforcement Administration	795	-	325	-	125	-	345	-	-
Federal Prison System	1,700	-	400	-	-	-	-	1,300	-
Immigration & Naturalization Svc	400	-	-	-	-	-	400	-	-
Office of Justice Programs	15,150	300	1,200	-	-	900	-	12,250	500

See explanatory information, if any, and SOURCE(s) at end of table.

Table 12. Federal obligations for research, by agency and field of science and engineering: fiscal year 1992 (est.)

[Dollars in thousands]

Agency and subdivision	Total	Life sciences	Psychology	Physical sciences	Environmental sciences	Mathematics and computer sciences	Engineering	Social sciences	Other sciences n.e.c.
Department of Labor, total	30,048	-	-	-	-	-	-	30,048	-
Bureau of Labor Statistics	7,700	-	-	-	-	-	-	7,700	-
Employment Standards Administration	139	-	-	-	-	-	-	139	-
Employment and Training Admin	5,609	-	-	-	-	-	-	5,609	-
Occupational Safety & Health Admin	3,265	-	-	-	-	-	-	3,265	-
Office of the Secretary	10,285	-	-	-	-	-	-	10,285	-
Pension Benefit Guaranty Corporation	450	-	-	-	-	-	-	450	-
Pension & Welfare Benefits Admin	2,600	-	-	-	-	-	-	2,600	-
Department of State	8,987	-	-	-	-	-	-	8,987	-
Department of Transportation, total	135,962	1,097	702	7,825	4,075	7,051	108,322	6,690	200
Coast Guard	7,100	-	702	-	940	1,800	3,658	-	-
Federal Aviation Administration	25,793	-	-	-	-	-	25,793	-	-
Federal Highway Administration	52,020	-	-	5,811	2,835	2,487	40,195	692	-
Federal Railroad Administration	21,425	-	-	1,714	-	-	17,140	2,571	-
Maritime Administration	2,000	-	-	-	300	-	1,700	-	-
Nat'l Highway Traffic Safety Admin	23,743	1,097	-	-	-	2,764	16,555	3,327	-
Office of the Secretary	837	-	-	300	-	-	437	100	-
Research & Special Programs Admin	3,044	-	-	-	-	-	2,844	-	200
Department of the Treasury, total	21,982	250	255	3,656	-	11,178	300	6,343	-
Bureau of Engraving and Printing	3,306	-	-	3,006	-	-	300	-	-
Internal Revenue Service	17,521	-	-	-	-	11,178	-	6,343	-
Office of Protective Research	505	250	255	-	-	-	-	-	-
United States Customs Service	650	-	-	650	-	-	-	-	-
Department of Veterans Affairs	198,500	177,950	15,550	-	-	-	5,000	-	-
Other agencies									
Advisory Comm on Intergov'tl Relations	1,416	-	-	-	-	-	-	1,416	-
Agency for Internat'l Development	299,053	205,632	-	-	610	2,356	2,924	44,708	42,823
Consumer Product Safety Commission	1,035	-	-	115	-	-	920	-	-
Environmental Protection Agency	395,438	167,058	1,002	68,096	71,254	10,045	72,588	391	5,004
Federal Communications Commission	1,414	-	-	-	-	78	1,100	236	-
Federal Trade Commission	519	-	-	-	-	-	-	519	-
International Trade Commission	11,790	-	-	-	-	-	-	11,790	-
Library of Congress	1,642	-	-	-	-	-	-	-	1,642
National Aeronautics & Space Admin	4,175,837	236,871	17,160	1,057,209	780,882	85,131	1,960,664	107	37,813
National Archives & Records Admin	460	-	-	460	-	-	-	-	-
National Science Foundation	2,101,632	317,144	14,498	559,882	559,525	243,952	220,560	63,247	122,824
Nuclear Regulatory Commission	250,938	-	-	-	-	-	250,938	-	-
Office of Thrift Supervision 4/	3,494	-	-	-	-	-	-	3,494	-
Smithsonian Institution	111,744	38,709	-	29,127	7,759	-	-	36,149	-
Tennessee Valley Authority	23,370	6,507	-	7,989	818	-	-	158	7,898
US Arms Control & Disarmament Agency	2,000	-	-	950	-	100	100	850	-
United States Information Agency	650	-	-	-	-	-	650	-	-

n.e.c. = Not elsewhere classified

1/ Data reported for the Agricultural Marketing Service include funds for the Office of Transportation beginning in 1989.

2/ In fiscal year 1991 Human Development Services was renamed the Administration for Children and Families.

3/ In fiscal year 1991 the Agency for Health Care Policy & Research became separate from the Office of the Assistant Secretary for Health.

4/ In 1989 the Federal Home Loan Bank Board was replaced by the Office of Thrift Supervision.

SOURCE: National Science Foundation/SRS, Federal Funds for Research and Development: Fiscal Years 1990, 1991 and 1992

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